PLAYER'S GUIDE TO PROGRAMMABLE VIDEOGAMES

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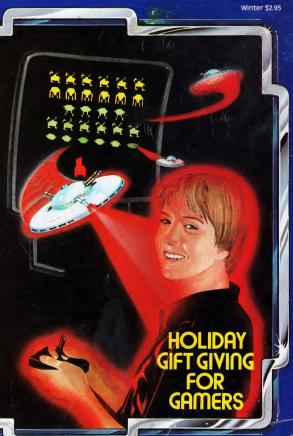
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arcades, ATARI Pac Man** is slated for the same next year



VIDEO CHECKERS



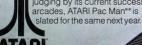


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OUTLAW NIGHT DRIVER SIOTRACERS **ASTEROIDS** BACKGAMMON HUMAN CANNONBALL WARLORDS CANYON BOMBER RASKETRALL NDY 500 HOME RUN STREET RACER ADVENTURE MISSILE COMMAND CONCENTRATION CODEBREAKER GOLF CASINO OTHELLO FOOTBALL SKY DIVER 3-D TIC-TAC-TOE HANGMAN BRAIN GAMES VIDEO PINBALL BOWLING SPACE INVADERS VIDEO CHESS DODGE 'EM MRZE CRRZE

AIR-SEA BATTLE

electronic GAMES

Volume 1, Number 1

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Switch On!

A hearty welcome to the first fun-packed issue of Bectronic Games from the editor to you!

Inside Gaming.

"Playing Chicken with David Crane" takes you behind the scenes for the story behind Acol/islon's offbeat videocome hit. Freevalv.

O&A...

EG's very own Game Doctor provides straight answers to some tough gaming questions.

Feature

CAN ASTEROIDS CONQUER SPACE INVADERS?

It's a super-game vs. super-game showdown with the loyalty of 10 million electronic gamers as the prize!



electronic games we'll all be playing next year!

Special Section PLAYER'S GUIDE

TO PROGRAMMABLE VIDEOGAMES

EG's magazine-within-a-magazine tells you everything you need to know about programmables.



Programmable Parade....41
Incisive reviews of the newest programmable videoglame cartridges.

Computer Playland......58
Save the universel Bowl a perfect game! Blast those space rooks!

Executive editor Bill Kunkel introduces a trio of coin-op games just hitting the nation.

Own Your Own
Arcade Game...
You can fulfill the arcader's dream of having your private coin-op machine at home.

Center, the biggest arcade in game-crazy New York City

4 Electronic Games

FIRST: MONSTER CRUSH, C THE GREAT MOV

And guess who stars as the movie monster. You! As any of six different monsters. More if you have the disk version. You can terrorize and destroy

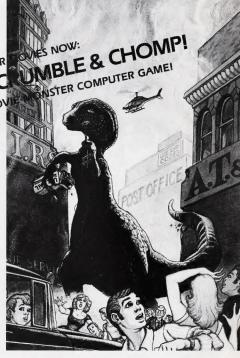
four of the world's largest and most densely populated cities in over 100 possible scenarios. From Tokyo to the Golden Gate, you are the deadliest creature in the air, on the land, or in the sea.

You can be the deadly amphibian who simultaneously smashes street cars, lunches on helpless humans and radiates a ray of death.

If you were a giant winged creature, think of the aerial attacks you could make on the terrified but tasty tidbits beneath you.

But as in all the best monster movies, you're up against everything the human race can throw at you—even nuclear warheads and a strange concoction developed by a team of mad scientists.

For only \$29.95 you get 6 stupendous monsters, each with its own moristrous summary card, 4 teeming metropoli displayed in graphic detail on your computer display and mapped in the accompanying 48-page illustrated book, the awesome sounds of moristerly maybem, and spinetingling, real-time, edge-of-yourseat evictements.



GET CRUSH, CRUMBLE & CHOMP now at your local dealer for your APPLE, ATARI, or TRS-80 .. before it's too late.





Id you know that you're a member of the world's fastest-growing hobby group? It's true. Although the first Pong machine made its debut only a decade ago, today more than five million Americans requirily play electronic games.

The introduction of space-age electronic amusements amounts to nothing less than an entertainment revolution. Check out some of these startling statistics:

- Nearly four million homes now have programmable videogame systems.
- This year alone, Americans will buy two million videogame systems—and 20 million carridges to use with them.
- ★ Gamers pour 10 million quarters into Asteroids coin-operated machines every single day.

And now the hobby is reaching another milestone. At last there's a high-quality newsstand publication that we arcaders can really call our own. Reese Publishing Co., prompted by your overwhelming support of the "Arcade Alley" column in Video. is giving all lovers of electronic games a rallying point.

What kind of magazine will Electronic Games be? For operes, this publication is written by actual games for actual games. You'll never see so-caled "revelows" written directly from manufacturers' press releases by known-nothing writters in these gages. That's a promise. Everyone on our staff, from cofounder and securitive difor BIK kurkled to staffers like Frank Tetro and Joyce Worley, are nust shout these games.

In this and upcoming issues, we'll be covering every facet of the fast-changing world of electronic gaming. We'll cover the entire specby Frank Laney Jr.

Welcome To ELECTRONIC GAMES

trum of this fascinating hobby from the tiniest hand-helds to the most sophisticated computer simulations, with plenty of emphasis on videogames and commercial arcades. Exactly how much space we devote to

each aspect of electronic gaming depends on you, the readers, Please take a few minutes to fill out and mail the readers poll located elsewhere in this issue. It'll do a lot to help us create exactly the type of magazine you want.

Why not drop us a line? Tell us what you liked—and what you didn't—about this premiere issue of **Electronic Games**. And feel freeto comment on any of the ideas and opinions aired by our writers.

One final promise: This installment of "Switch On!" will probably be the most sober-sided piece you'll ever read in this magazine. We try to take electronic gaming seriousby, but not, we nope, solemnly. After all, furits what this hobby—and Electronic Games—is supposed to be about. We want this magazine to be as colorful and exciting as the cames themselves.

Welcome to Electronic Games. Let's play! ★

A Message To Readers of E. G.

When Frank Laney Jr and Bill Kunkel first proposed an electronic games column for Video magazine, it sounded like an interesting idea, We weren't sure our readers had enough literest in this new "sport" to justify such a column, but we decided we had nothing to lose by trying it out. Not only did Video not lose anything by in-

Not only did **Video** not nose anything by inaugurating the now-popular "Arcade Alley," but we've gained a whole new magazine, **Electronic Games**.

Cast in the same mold as Video—the leading home video periodical—EG is written by the field's top authorities and edited to appeal to the growing legion of arcade addicts.

Both Bill and Frank are expert gamers who, through "Arcade Alley" and direct consultation with game designers, have contributed notably to popularizing and refining the noble art of electronic gamesmanship.

They originated the Video magazine "Arcade Awards" (Arkies) to honor excellence in electronic gaming, and they are recognized by maufacturers and players alike as the top commentators on America's fastest-growing home entertainment hobby.

With so many half-baked electronic entertainment magazines floating around these days, we feel it is important to assure you that **Electronic Games** will maintain the same editorial integrity and excellence readers have come to expect from **Video** Magazine.

Our primary goal, as it has always been with Video Magazine, is to remain responsible and responsive to our readers. Bruce Apor

& Electronic Games

BRIDGE PLAYERS

THE SKILLS OF THE EXPERTS ARE NOW AVAILABLE TO YOU AT A \$100 DISCOUNT

"I HAVE BEEN TO THE FUTURE, AND IT WORKS!"

These are the words of Alfred Sheimveld, brodge expert, when he first played the new brodge expert, when he first played the new brodge expert, when he first played the new brodge expert, when he had been seen and two-first when the seen and two-first wh

Imagine noted bridge expert Alfred Sheinwold who, in a recent issue of Popular Bridge magazine, describes how he came to name his Bridge Challenger 'Charlie'. As Mr. Sheinwold, syndicated columnist and well known author FVE WEEKS TO WINNING BRIDGE tells of FVE WEEKS TO WINNING BRIDGE tells of with Charlie. Its easy to forget that Charlie isn't human because in not only reads the cards.



Alfred Sheinwold, noted bridge expert, puts Fidelity's Bridge Challenger through some intricate bridge play.

develops strategy and plays a demanding game of bridge—It also talks to you. During bilding it clearly announces both its own and the human players bids and plays using popularly accepted bridge terminology. In fact, Mr. Sheinwold ends his (verpage article wherein he praises the performance of Birdge Challerger Sasying, make Irindex with someone who can!"

THE SECRETS OF THE EXPERTS

Make no mistake! This is no gimmicky toy-like contraption! Compact, completely solid state, if contains the best that today's electronic state-of-the-art has to offer... and a little bit of tomorrow. Voice Bridge Challenger's tiny



computer "brain", a manvel of microprocessor precision, has been built to play like a pro. In fact the engineers and programmers who designed the engineers and programmers who designed continue to the programmer of the properties of the programmer of the programme

IF YOU LIKE THE GAME OF BRIDGE, YOU'LL SURELY LOVE FIDELITY'S NEW YOICE BRIGGE CHALLENGER, BRIDGE WITH SURELY SHOW THE STATE OF THE STA

When it comes to playing bridge, this computerized opponent does everything a human can do... if reads the cards, bids the hand (actually calls out each bid in a clear, understandable voice), plans strategy, and plays out the hand with a precision and extraordinary ability that will delight and amaze you. Bridge Challenger truly comes to you right out of the future.

There's more. Much more. Voice Bridge
Challenger contains an advanced mew bridge
bidding and playing program. A sophisticated
polical scanner proceeding reads custom coded
optical scanner proceeding reads custom coded
causes the computer for lake over all four hands
at the press of a button and replay the deal
you have just completed, making it easy for you
to test your skill andor paly duplicate bridge
against the computer. During the bidding,
and a start of the computer for the press of a series
against the computer. During the bidding,
as Sillyrams, Gerber, Blackwood, Lincolby

Transfers, Baron, Strong Two Club, Weak One No-Trump Openers, etc. If combines the essential features of Standard American bioding with some aspects of such European systems as ACOL. It rejects iflegal bids, displays revokes, indicates vulnerability and will see the such that the such combines of the such didding and last deal on demand.

The Fidelity Voice Bridge
Challenger is built to last. It will
provide endless hours of troublefree enjoyment ... tough, challenging and
educational. Great for practice or serious play, it
can help you develop from a novice to a high
intermediate level. And just think of the impression it'll make among your bridge friends.

Voice Bridge Challenger is 100 percent solid state. The voice feature is not a laper recordingwords are formed according to play action by a computer-controlled voice synthesizer. The black wood cabinet measures 13" x 7" x 1%" overall and it operates on standard household current. Each unit is complete with two custommade, plastic-coade bridge decks, three felt playing pads, AC transformer, and deluxe carrying case with fitted felt-like interior.

THE PRESENT SALE PRICE OF \$199.95 IS AN INTRODUCTORY OFFER. IT MAY NOT BUPLICATED OR REPEATED. DURING THE COMING HOLIDAY SEASON PRICE WILL REVERT TO THE REGULAR PRICE OF \$299.95. BUY NOW AND SAVE.

Computer Games

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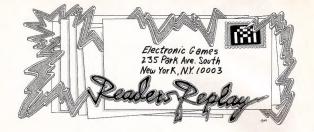
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Team Spirit

Congratulations on the debut of your new magazine.

As games designers, we are naturally pleased that there will be a magazine entirely devoted to the field of electronic gaming.

Good luck!

The ActiVision Design Staff Alan Miller David Crane

Larry Kaplan

Bob Whitehead Steve Cartwright

Ed: If we can write the magazine as well as you guys design the games, it'll be clear sailing.

Beyond Imagination

Congratulationsl

Your magazine is sure to fill a vacuum in the world of home videogames. It's been slightly less than 10 years since the first home video game was introduced to the market-it was an Odyssey.

The industry has grown rapidly. The sophistication and challenge of today's games are beyond anything we imagined 10 years ago. The time is right for a great magazine like yours which is edited by people who are experts in the field of videogames.

It boggles the mind when one thinks of the content of your tenth anniversary edition in 1991. Good luck.

Gerald A. Michaelson

Vice President Sales, Special Markets N.A.P. Consumer Electronics Corp. Knoxville, Tenn.

Ed: Yes, it's certainly the rapid pace of technological innovation that gives the hobby of electronic gaming a lot of its spice. Who knows, by the 1990's, we may be playing with 3-D holograms.

Explosive Field

Best wishes and success on your new venture

In the last 18 months, the videogame business has literally exploded, and the time is right for a magazine devoted to

video and other electronic games. We at ActiVision would like to offer our support and encouragement to all of

you at Electronic Games.

James H. Levy President, ActiVision

Santa Clara, Ca. Ed: Like the cooch dancer at the carnival said to the crowd as it en-

tered, "You ain't seen nothin' yet!" We at EG believe the next 18 months will be even more explosive than the last year-and-a-half.

A Source of Relaxation

It's finally happened! A magazine devoted to electronic games. All the 'gamers'', including myself will now have a magazine written about electronic fun. Many business programmers need

the relaxation of a good game. I do. Best of luck with the new magazine. I hope you will find it a pleasant advenfure.

> Scott Adams Author of Adventure Series Adventure International

Longwood, Fla.

Ed: Say, Scott, do you think you

could include the command "buy magazine" in your next adventure game?"

Others Ignore Games

I am really excited about your new magazine Electronic Games. Many of the industry's microcomputer magazines overlook or pass off the entertainment uses of micro-processors.

Electronic computer fun is the ultimate in game simulation. Electronic games offer incredible challenge and excitement, magnified by the interaction between man and machine. Your magazine has a tremendous niche in the marketolace.

Zap those Kingons! Richard R. Richmond Director of Marketing Adventure International Longwood, Fla

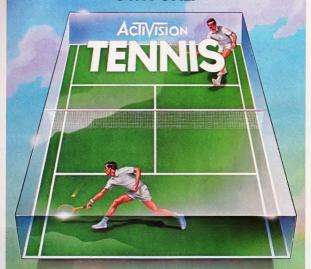
Ed: We couldn't agree more. That's why the EG motto is and will remain, "The play's the thing!"

Have some thoughts to share with the readers of Electronic Games? Let us hear from you. Address correspondence to: Readers Replay, Electronic Games Magazine, 235 Park Avenue South, New York, N.Y. 10003.

As quick-witted readers will immediately realize, it's mighty hard to have a letter column in the first issue of a magazine—unless you leak advance word about it to some of the biggest names in the electronic gaming. world. Next issue, of course, this page will be entirely devoted to your letters and EG's editorial replies.-Frank Laney.

8 Electronic Games

DON'T JUST RESERVE A COURT. OWN ONE.



If you had the choice, wouldn't you rather own the court? And play absolutely anytime you like. For as long as you like. Sure you would, And with Tennis by Activision, you can. It's allowed on your Afont or Spars viden

game system.

But, don't expect an ordinary video game. Tennis by Activision is something else. It's remarkably realistic. Capturing the speed, strategy and finesse of real tennis. With no reservations necessary. And that's one bit of realism we know you wor't miss.

Tennis by Activision. Own one.



5 1981 Activision, Inc. "Atori Inc. is not related to Activision, In-

Two pictures are worth



Two pictures are worth a thousand words.



It's obvious how much more realistic Intellivision graphics are But take a closer look. Notice the Intellivision players. They've got arms and legs like real players do Look at the field. It actually looks more like a real baseball field. If you compare the two games, I think you'll find that Intellivision looks a lot more like the real thing.

HAT?

Intellivision Las Vegas Poker & Blackack You play cards

with a shifty-eyed dealer

Atan Pele's Championship

Socoer malayers



Augus Casino 110 dealer

More about action

You can see how much more realistic Intellivision looks. What we can't show you here is how much more realistically it moves. If you could compare the two, I tunky you'd see that Intellivision has smoother and more life-like movement than Atan.

More about control

If you've ever played a video game, you know how important control is. And if you held these two control units in your hand, you'd know Intellivision gives you more The Atari hand controller offers only 8 positions and one button. The Intellivision hand controller has 16 positions and 4 buttons. So Intellivision allows



ATARI JOY STICK HAND CONTROLLER

Game caring of the control of the co

INTELLIVISION HAND CONTROLLER

INTELLIVISION
Intelligent Television

you to maneuver players and objects in more directions with greater precision and accuracy. And the Intellivision controller is compatible with the entire library. With Atari, some games require the purchase of additional control units.

More about challenge

You can't see it here, but I have found that in many of the Atari programs, the game play is rather simplistic. With Intellivision, the game play is more sophisticated. And that makes Intellivision more challenging, With Intellivision PCo. Golf for instance, you get must different clubs to choose from. With Atari Golf, you have to make do with just one club. Greater attention to detail as quality I have found in all of the Intellivision games. Making them more realistic. And more challenging.





Intellivision PGA Gotf

More about libraries

Both Intellivision and Atari have large libraries. But there really isn't any way you can tell which library is better, until you play with both. Once you compare the two systems for challenge, sophistication and continued interest, I'm confident you'll choose Intellivision. But don't just take my word for it. Visit your local dealer and decide for yourself.



a thousand words.

It's obvious how much more realistic Intellivision graphics are But take a closer look. Notice the Intellivision players. They've got arms and legs like real players do Look at the field It actually looks more like a real baseball field. If you compare the two games, I think you'll find that Intellivision looks a lot more like the real thing



Atari Casmo™ No dealer

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The Intellivision hand controller has 16 positions and 4 buttons. So Intellivision allows



ATARI JOY STICK

Action 16-position Game cartridge control dis-Action buttons 12-key put key pad

> INTELLIVISION HAND CONTROLLER

MATTEL ELECTRODICS® Intellivision Intelligent Television

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More about libraries

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DESIGN DESIGN DO NOT DISTURB

// Wow I wonder how they ever got the idea for this one?"

How many times have you asked that quest on while piaying some mind boggling new electronic garre? What arcader hasn't wondered, pernaps while waiting for the next turn to play, what inspires designers to create games like Pong. Space Invaders or Freeway?

Wonder no more. Each issue, in "Inside Gaming," we i be going behind the locked doors of the research and development laoratories to bring you the story behind the games you love most

It takes an unusua, magnation to conceive a videogame in which two players attempt to race chickers across a 10-liene inghway with traffic running from ignt to gridock. And every time a poor cuck gets in they acro retrick in fluities back to the preceding ane for salery. Unless, that is, is a them in thy a second vehice that knocks is still further back toward its starting point.

Sounds like a pretty weird game, right? Well, David Crane a key member of Activision's crack design staff not only imagined Freeway, he made it come alive. So naturally, when we found ourselves sitting across from this mad inventor at Activision headquarters, we just had to as!



Activision's FREEWAY: Why did the chicken cross the road?

Playing "Chicken" with David Crane

Chickens cha-cha across a busy tenlane roadway in Dave Crane's FREEWAY



"Wow, Dave, how did you get the dea for **Freeway**?"

The story of Freeway begins at a trade show and convention in Chicago Dave and some finends accidently left the convention center from the wrong ext. The only way to get where they wanted to go was to brave crossing the Windy City's busiest thoroughfare at the height of the mid-afternoon crush.

As they bobbed and weaved across the mighty multi-lane road carefully picking their path lane by lane, someone commented brightly. Gee this would make a great videogame:

Crane and his buddies got safely across the highway, but the idea might well have died there. You know just another passing joke that's soon forgotten.

And so it might have been if fellow Activision game designer Larry Kaplan had not experienced a strikingly similar reveation. Later that day "explains Dave Crane." Latry was riding a bus. also along Lake Shore Drive. He saw some poor guy trying to cross it against the traffic, too. The man was going crazy, dodging and darting between cars and trucks first going forward a little and then backing up."

The signt impressed Kapian enough that he mentioned it to Dave, who suddenly began to realize that this might indeed be the basis for a video game after all.

all
He mmediately began developing the graphic elements several types of automobiles trucks (which always used the nisde anes) and the freeway teef He also worked up the accompanying soundtrack of blanng truck horns and it-tel car bees.

Then came the first big problem. Exactly what would the garners be manieuvering across the treacherous freeway? Onghia ly Crane fired a craw impluman figure. but it somehow don't seem give right to have this poor guy squashed flat 20 times a gaine. Soft equestion remaned. Who—or what—was going to cross that road?

That's where the San Diego Chicken came in says Activision spokesperson Diane Drosnes For the benefit of non-basebail fans the San Diego Chicken is Ted Giannouilis a feathered (Junnyman

continued on page 56



Designer David Crane answers the musical question. Why a chicken?

Are you at least middly curious about the nerry band of writers bringing you this premiere issue of **Electronic Games**? We hoped you might be That's why we comered every last one of them and forced them to divulge their autobiographies

Frank Laney Jr. (Editor & Co Publisher is the co-founder of this magazine He and Bill Kunkel co-author "Arcade Alley" the word's most wide viread videogame column, each month in Video magazine. He and his wife live in luxunous splendor somewhere in the Big Apple, surrounded by every manner of electronic gaming device (Ms Laney like her husband, has always wanted to own her own personal arcade, though she didn't expect it to be located in her living room I Laney, who has made his living as a journalist since graduation from Burbee State College, writes primarily about electronic games and similar pop cultural subjects. He loves sprey food games, rock music and his wife, not, of course, in that order it is not true that he sleeps on a caberet Space Invaders machine

Bill Kunkel (Executive Editor) is the other co-founder of Electronic Games as well as being indisputably the better player of the pair. The 31-year-old gamng ace has co authored, with the aforementioned Laney too many articles. about electronic arcading to catalogue here A former rock guitants and comic book scribe. Kunkel is currently recognized as one of the most incisive commentators on the contemporary scene hes asso known as "time men who beat Frank Laney at indexparies again". Champion and confidante of electronic game designers from coast to coast. Kunkel and his cohort are regularly quoted in newspapers and national magazines.

Joyce Worley (Senot Ector) s a familiar sight at arrades around New York City, where she resides with her husband of 10 years Of course, she's been hooked on bright coors and flashing lights since her chadhood in rulas southeastern Missouri. As a freelance writer her work has appeared in numerous magazines including/Odd Main Event and Video Magazine. The strawberry blonde: say her co-workers, is better known for body engish than nigh gaming scores.

Jethro Wright III (Technical Editor) is the 23-year-old whiz-who does the magner's technically onented. Test Labicolumn. Jet, as he's known to his finends, is currently in charge of software development at CSOS. a New York City-

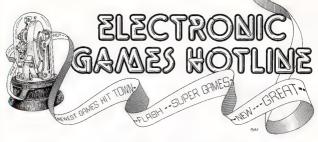
based computer consulting firm, where he specializes in writing diagnostic programs

Frank Tetro Jr. (Strategy Editor) strict boy wonder of the Electronic Games crew. The 15-year old super-gamer from Westchester N.V. first came to the magazine's notice at last year's New York regonal Space Invaders fournament. There, ne astounded more than 6.000 arcaders by amassing the greatest number of points ever scored under competitive conditions. Since then, Frank's arcacing exploits have been the subject of stores in Video and LIFE magazines. If Frank Tetro can't heigh gamers sharpen their skills no one can

Ross Chamberfain (Contributing Clidtor) is a genume editorial double threat. He's both a topflight reviewer and a featured cartooms for the magazine. The sny and more than somewhat to tope whenever he gets a poystick in his hand. A journasts with a decade of experience Ross san avorfain of science fiction and Fartasy in allist smary forms.

Arnie Katz (Contributing Editor) is a frequent contributor to Video Magazine and numerous other pop culture penodicals. The 35 year-out writer is an avid arcader who expects to be doing a lot more contributing to Electronic Games infuture asses.

Electronic Games 13



Atari confirms rumor; secret messages exist!

*Sources at Atan have confirmed nor of aroundings most persistant widestones if a agamer sends the nero to a certain noom in the VCSAdventure and performs a specific action a secret message revealing the designer's name wull appear on the screen Many had sooff ed at the notion olding the fact that Atan doesn't credit only given the screen Many had sooff be true.

Aithough the programmer in question didn't see fit to let his empioyer in on the joke, Atan's evidently taking the whole thing with good grace in fact, it gave Steve Wright an idea for the fitting.

"From now on." he tool EG in an exc usive interwew we're going to plant little 'Easter eggs' we that in the games Eventually we may have a real treasure hunt, with the clues hidden in various game carrindges!" How with arradies know

How will arcades know when a cart doe contains such buried treasure? By ar rangement, with Atan Electronic Games w.l. be able to let the gam...I gwolf know when to start hunting We'littell you when an "Easter egg" is buried in a new release but not how to find it.

Atari report

★ Will McDonalds be the first fast-food chain to hop on the electronic gaming Patrol the skies with Atari's RED BARON



bandwagon in a big way? The hamaiger king has a proached Akiar about the possibility of designing a computerzed video montor. The device would take the meal order—and then hep the customer pass the wat pleasantly by paying a videogame. One potential http://www.miss.com/ payer is on a not streak when the Big Mic fires and soft dimitishow. Did soft dimitishow.

★There's guite a story ben not the deay in the release of the VCS Asteroids cantoge. The version the company showed a year ago received such a frosty exembor from those who got an advance peeu that the designers went back to the drawing board. They developed a special process that puts twice as much program—BK vs. 4K—onthe cartridge as was previously possible if seems.

that Atar's wizards came up with a special bank switch that fips back and forth between two 4K programs, fooing the VCS nto reading them both

*Red Baron is the latest addition to the quadrascan series of Ataric commercial-cade machines. Garners particularly to be pained fring at the enemy over the whirling prope for blade. Fit negly, the control is a reastst polystic Start your engines. Atariaces



Atari's coin-op version
of WARLORDS

Tourney offers

\$50,000 in awards

* The biggest tournament in the history of electronic gaming is scheduled to begin in Chicago on October 29. The four day extra vagariza billed as the Atam World Championships, will reward the best players of that company's components.



Last year s SI tournament attracted 10,000 video fanatics!



games with a total of \$50,000 in cash and mer chandise prizes

Although the finals will conscide with the annual convention of the Amuse ment & Music Operators Association, preliminary rounds took pace across the country during the summer and early fail Participating commercial acrades spon sored the local events which are sending contestants to the big showdown in the Second City.

Reportedly, high-power ed players who missed out on last year's hugely successful **Space Invaders** tournament are coming out of the woodwork to get a piece of this year's action

the National League worn is loth straight all-star game from the American League shortly after the straight ended in August. What some may not have neard's that the junior Joop had already taken a drubbing at the hands of the senior orcutil link and shortly game of Intellivijsion. Major League Baseball.

Matter attempted to aid diamond devotees during the depths of the strike by inviting George Brett of the Kansas City Royais and Mike Schmidt of the Philade, pha Phillies over for a little game of video hardball.

Mike Schmidt turned out to be something of a natural arcader. He easily defeated



George Brett and Mike Schmidt battle head to head

Inside Mattel

★ There seems to be some load of poduction logger at Mattel. The company's designers are still creating new games for the Master Component, but many of them nave yet to appear on store snelves. Some of the cartridges waiting in the wings include a USCFapproved chess program, Motorcross. should be on the shelvestins season for owners of the Master Component. Astro-smash combines aspects of both Asteroids and Space Invaders, Space Armada is an SI varient Bowling features a dual playfied and superb annation, and Bowling offers the most comprehensive treatment of the sport thrus fair. Adding a coupe of arrade-style cartridges can't hunt the system's sales.



Oakland's Dave Browning tackles Mattel contest winner

racing) Submarine Battle and a home version of the arcade stand-by in which piayers try to steer a constantly growing, snake-like line so as to be the last one still moving

★ Stealing a march on the other manufacturers. Martel has gone straight to the robe-playing game source. TSR Hobbits, and pulled off a hartisk. The company now has the nights to make electronic versions of Dungeons & Dragons in stand-alone videogame and nand-held formats. This signt in line with Mattel's policy of securing high-cass beens for as many of iss electronic games as possible.

★ Four new games

Activision Close-up

★ Steve Cartwright is the iatest addition to the ever growing Activision design staff, which is already heavy with Arcade Award winners. The new kid on the block a protege of David Crane, will be showing the world his first cartridge.



Activision's STAMPEDE

Electronic Games 15



Face off with ICE HOCKEY

before the end of the year

- ★ Fans who've clamored for an Activision Club may not know that one already exists—sort of Whenever a gamer mails in the warranty card for an Activision game, the name goes onto a special making it if the company then penodically sends these fooks advance word of new releases.
- ★ The software supplier aso has some smaller considerably more exclusive societies for the game playing elite For example, anyone who cracks 100,000 points on Laser Blast gets an iron-on patch that designates the wearer a "Commander" in the Laser Blast Federation Oh, and

superstars at **Kaboom!** are eligible to join Activ sion's Bucket Brigade

Computer Upgrade

*Runners get sinispunts racketbail of ayers come down with tennis elbow and computer gamers have—chronic underbyte. Owners of some of the smaler computers wer the Atan 400 and TRS-80 Co or Computer can surmount the imitations of restricted memory with new upgrading kits.

First into the field is Axon Sunyivale, Ca., which is of fening the 32K Ramcram for the 400 Instalable by even an electronic liketate in iss than 10 minutes, the Ramcram beefs up the Atam's memory enough to allow connection to a disk drive inter is also reportedly offering an Axan 400 upgrade.

Color Computer owners can also buy such likts but many will probably choose to wait unit. Tandy's own "official" upgrade becomes available in 1982.

Cosmos Put on the Shelf

* Those who were plan-

ning to give COSMOS to someone this holiday season had better start looking for a substitute present. Al though Atan layshed much advance publicity on its holographically enhanced standialone programmable, the company has shutted it back to the design department for more work

Axlon's Ramdisk

COSMOS. Maybe next year



A though the accomplishment of actually developing a temmerraay viable holograph process drew much admiration the game itself received decidedly mixed reviews. The nongizyms served as mere becoration and did not dreck viaffect balk for the programs.

Critical relection caused Attain to invite second thoughts about the project Relectant to release any product not foly up to its high standards the game-maker decided it would be better to work on the concept some more before puttling its reputation on the line.

The best guess is that in light of Atan's enviable track record it won't be too long before true holographic games become a reality.

Odyssey Outlook * Odyssey nowoutfrom

under Magnavox and oper ating as a separate division of North American Philips.

will popularize its progammabe vedeogame system and the same and several popularize its progammabe vedeogame system and the same lateut a training the same lateut beyone for the sand's best UFO for the and's best UFO for the and's best UFO for the and so on the soone of ward caming a socie of more than 800 on this decept-vely difficult that decept-vely difficult that the same lateur than a socie of more than 800 on the soone that the same lateur than a socie of more than 800 on the same lateur than a socie of more than 800 on the same lateur than a society of the same lateur th

o Inc. 170 N yearls Road Somewhat CA 9406

- ★ Quest for the Rings, which you can read about elsewhere in this issue of Electronic Games, turns out to be only the first of a projected trilogy of board-game videogame in photos. Next up is Conquest of the World, a military strategy game Odyssey s keeping mum about the nature of the tind game, but players will be satisfied if it's as good as Quest. -
- ★ A batch of promotorial terms and accessories for Odyssey lans are being of fered by the videogamemaker Thesemicluoe Quest for the Rings posters and t-shres—both beauf fully done—and a clear plastic nolding tray for the Odyssey' console joystocks and up to 17 game cartridges. See your local Odyssey deads.
- ★ Odyssey is multing the idea of producing a magazine for devoted fans of its game system. It would contain mostly playing tips and suggestions of special ways to enhance and enrich existing games.

continued on page 73





What Has Your TV Set Done For You Lately?

Sure, watching "the tube" is enjoyable a lot of the time. But today, home entertainment is much more than just broadcast IV. Today, your IV set can bring you movies you choose yourself to play any time you like. Fur and games. Problem-solving, self-improvement, and personal security. Unique, priceless memories of family and firends. Art you create yourself. It's a whole new world ... the fascinating world of Video.

Whether you're a video veteran, a beginner just getting your feet wet, or someone intrigued with the thrilling possibilities the field offers now and for the future, VIDEO Magazine should be your guide to this world.

Every month, VIDEO will show you how to use your TV, not just watch it. You'll read news of and invaluable test reports on the latest video equipment. You'll find sources, previews, and reviews of pre-recorded programs to buy or nert. You'll learn helpful home taping techniques: using a video camera, lighting, dubbing in audio, creating video at. You'll profit from expert technical advice. You'll explore all the alternatives to broadcast TV available today and the developing technologies coming formarrow.

In short, you'll enjoy the most comprehensive information possible from the first and foremost video publication—and in a lively, thoroughly entertaining way.



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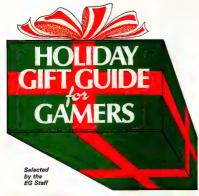
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Fidelity Champion Sensory Challenger

(Fidelity Electronic, Miami, Fla. \$375.)

Fidelity is the acknowledged cham-

peen of the stand alone computer chess business. With at least 95% of the U.S. market, they are incontestably number one. The **Champion Sensory Chess**. **Challenger** is their top-of-the-line chessplaying macrine. At \$375. it's neither

the company's most expensive nor handsomest system, but one thing is certain—it'll play you one helck of a chess game. According to Fidelity spokesman Frank Cimo, "The **Champion Sensory Challenger** has been winning chess tournaments all over the world."



Casio Game-Playing Watch (Model No. CA-90/Casio)

While it's true that today's wristwatches do just about everytring from telling time to whisting "Doxe", Casos'. CA-90 adds an interesting extra to the usual catalog of functions—it plays a game True. it's a simple program, a sequential numbers game available on most of Caso's calculators. But this six he first time a wristwatch has been able to play any sort of game, and it is therefore of historica, importance.



Satin Space Invaders Jacket

(59 95 by the Whiz KidslOrder St Jacket, P.O. Box AGC, Haif Moon Bay, Ca. 94019/Boxed/S,M & L)

This incredibly handsome, baseball warm-up style jacket with everyone's favorite alien invader emblazoned in gold glitter on the back is guaranteed to



stop even casuar gamers in their tracks! The jacket is of good quality and the artwork is magnificent. For the gamer who truly matters.



Pocket Simon

This is the take-it-anywhere version of the ever-popular color sequence game. It's the size of a typical hand-held game, has three game options and four skill

For anyone who doesn't know, the game involves four different colored quadrants on a rounded surface, each producing a separate musical tone Simon begins by lighting one of the quadrants and sounding its note You do likewise Simon then produces two tones, which the player must similarly reproduce, and so on in sequence until you eventually blow it

(Parker Brothers)

This is the single best selling hand-held in the field, according to its manufacturers, and the reason is almost certainly its versatility. Merlin is actually six difEcho, and Music Machine. This adaptability gives Merlin the edge over even the most intriguing single game handhelds.

The Children's Discovery System #1605/Matte Electronics This tiny computer, with 2K resident

memory, has a multi-function keyboard. music, typing and art modes—and it's all designed for the young child just learning about computers. The CDS offers a monoplane alpha-keyboard with numeric overlay, its own built-in LCD (Liguid C rystai Display) monitor and, as of now, eight cartridges which plug directly into this programmable system

Space Invaders T-Shirt (Downeast Trading Co., 737 Warburton Ave., Yonkers, N.Y. 10701/56 99) This is it, gamers, the one and only, oh-fishul, Tarto-approved Space Invaders t-shirt. Made of 50/50 polyester and cotton with a high, ribbed crew

collar, this beautiful silk-screen shirt comes in red. royal blue and black and in

sizes S.M.L and XL for adults, and in medium or large, on royal blue, for kids. The shirt front shows the famous Taito playfield with the game title. The Plastisol silk-screening process will keep your little aliens from chipping off in the wash



Electronic Games 19

Home Bingo Machine (Imaginamics)

Electronic Bingo is available in two sizes. The smaller version is called Exec-U-Play Bingo, and the big boy is Elec-tronic Super Bingo. These home two to two nundred people and are part of a game series featuring electronic versions of dice, roulette and slot machines

भे भे भे





Allen Invaders/Galaxian Mini-Arcade

INPi Electronicsi Price: Not available This revamped edition of last year's

NPI Space Invaders is bound to be one of this holiday season's hottest nandhelds. This mini-game boasts excellent sound effects digital display one- and two-player modes, nigh-score isting and a five-inch screen it even has a mystery ship feature like the full-size machines!

会会会



Head-to-Head Boxing

(Coleco) Price Not available

head-to-head designation shows why his corner after each round but even that name is so respected by gamers. Ar- raises the victor's hand in triumph at the caders maneuver LED pugilists around end the squared circle with a tiny plastic joy-

stick and throw punches by hitting a pair of glove snaped buttons. The referee not The latest game to bear the famed only escorts one of the fighters back to



The Apple-Crate

(Distributed by Softsel, 40/9 Giencoe Ave . Marina dei Rey, Ca 90291) Price \$49.95

Computersts are always boxing for a place to put their machine and peripherals. The solution is usually a floor strewn with disk drives and my-like electrical wir ing Now comes the solution the Apple-Crate Made by a leading speaker cabinet manufacturer, the dark woodstyle finish is scratch- and stain-resistant More important, it provides slots for the computer and a pair of disk drives. The monitor perches neatly on top



Horse Race Analyzer

Mattel Bertonics Price Not available Tired of betting good money on anmals that never bet a nicke, on you? Then here's the ticket to beating the system Matte's Horse Race Analyzer When used in conjunction with a daily by sneet this hancheld microomputer outs neavy-duty brainpower behind those picks.



Electronic Detective (Idea) Price \$40

One of the very first electronically augmented boardgames, it is somewhat smalar to the non-electronic detectron game. Clue: A microcomputer capable of creating 18,0000 crime verabioms is grided by each player in turn. It's no smitch, mough. Detectrives must fiss raps of information together to piece together the whole sortid story.

8- 1- 1



Lexor

(Selchow & Righter) Price: Not available. This electronic version of Scrabble allows up to four players to race against the clock to see who can get the most word mleage out of the seven letters shown

on the LCD screen. There's even a solitaire version in which the gamer works with 14 seven-letter "racks".





A new computer from Tandy—and a color one at that—is always big news, especially to a vocal TRS-80 cheerleader like myself

Physically, the Color Computer is similar to its two predecessors, the TRS-80



CHESS

Model I and Model II. Apart from the most obvious addition, color graphics, there are some less obtrusive differences worth noting

For one thing, the basic CPU/keyboard case is large enough to provide room for interfaces for all the peripheral devices designed for use with the system. Gone is the cumbersome-and expensive-expansion interface of the Model I. Hoorayi Built into the machine is a faster, dual-speed cassette interface for longterm storage of user-entered or prepared software programs. Also included is a serial interface to facilitate connecting the Color Computer to a disk drive, printer or modem. The unit also features two joystick ports for use when playing computer games, as well as an output for connecting the system to a TV

When the hardware "hackers" out, there crack the Color Computer's case, they'll be in for a treat. The excitement starts with the CPU (central processing unit, Tandy has switched from its standard workhorse, the 2-80 microprocessor to the more advanced 6809 Internally, this processor looks a lot like a 16-bit.

by Jethro Wright III

Tandy Unveils Color Computer

minicomputer. This translates into higher speed and greater programming flexibility than can be realized even with the more expensive Model I/III.

Regretably, the improvement has almost eliminated any chance of using any of the mammoth number of software programs developed for the earlier Model I. That shouldn't be a real drawback, however, if Tandy achieved the same degree of acceptance with the Coor Computer as it did for its previous home computer.

Moving on, there is the video chip (6847) This LSI wonder delivers eight basic colors and programmability in a single



DINO WAR

package. Gamers who have felt shackled by the black and white output of TRS-80 sense can now fill the screen with green. blue, yellow, red, buff, cyan, magenta and carrage, Beades being simple to use, this chip confest the added bonus of improving the computer's reliability through the reduction in the number of parts that can fail.

In its normal display mode, the Color Computer can present 16 lines of 32 alphanumenc characters each. Although the system will print lower-case letters in reversed, black-on-green form, the Color BASIC programming language resident in the smaller 4K version only understands capitals



PINBALL

Many home arcaders will want to look into the more powerful 16K Color Computer, which has extended BASIC resident in ROM It makes it much easer to manipulate the color graphors. For example, extended BASIC makes it possible to draw a cricle by smply indicating the center, radius and color design and color design.

Now for some badnews. Since Tandy has aimed the Coor Computer at the home market, it has limited RAM (rand macress memory) to 16,000 bytes For some reason, computer manufactures don't think home computeries need very much memory. In any case, the ROM card connector allows those who want to make the expansion that Tandy duff it think they dined to do so A few alternate hardware vendors are alternate hardware vendors are alternate. However, and the proposed for t

The manufacturer wisely elected to stock with a winning hand and turned to Microsoft to develop the BASIC interpreter for the Color Computer in adition to sophisticated sound, graphics and joystick control, there is some compatibility with the Level II/Model iil BASIC, so that programs originally with the for these machines should transfer to





the Color Computer without a great deal of difficulty

For the more sophisticated user like myself—the Color Computer has a couple of serious shortcomings.

While the graphics are satisfactory, they lack the high resolution of a comparable machine such as the Atari 400/800 The number of colors available on the screen at any given time also creates a bottleneck. The unit only allows certain pre-defined color sets in each of its display modes.

 The joysticks are, in a word, lousy. Here. Tandy's attempt to cut corners has totally falled. The response and feel are poor, and they don't automatically return to a neutral position. The joysticks are also physically small, making them less convenient to use than the ones with which most gamers are familiar.

Overali, the TRS Color Computer is a good system. The majority of its features

games on ROM cartndges thus far, but its track record for sticking behind its products promises much for electronic arcaders over the next few years.



BACKGAMMON

TRS-80 Color Computer at a Glance

Price: \$399 (4K) \$599 (16K)

Weight: 7 75 lbs.
Dimensions. 4 in x 14.5 in x 13.5 in

Microprocessor: 6809

Cotor: 8 (plus black)
Sound: Five-octave, 12-note scale

Keyboard: 53-key calculator type ROM: BK (Color BASIC) 16K (Extended Color BASIC)

RAM: 4K or 16K bytes

Programming Language: BASIC Monitor: Hooks to any TV set with RF unit (provided)

Games (on ROM cartridges): Chess. Quasar, Pinball, Checkers, Math Bingo, Music



TRS-80 Color Computer

reflect Tandy's maturity as a manufacturer of computers. That means it's a satisfactory and highly usable machine for the home computerist.

Considering the investment that purchasing a home computer requires, it's a relief to know that your new machine will not become a "closet queen" because the manufacturer failed to make a commitment to its continued support with software (and hardware, too, naturalivi) Tandy has only released a few saving programs when the system sizeff is turned off. Since RAM loses its contents when the machine is powred down and ROM, can only be programmed by the factory, awaliary storage keeps programs between operating sessions. It can't be used instead of RAM or ROM, however, since it doesn't operate as fast as the CPU.

Auxillary Storage: Devices used for

CPU: Central Processing Unit This is the microprocessor—or electronic brain, if you will—that lies at the heart of every computer

Disk Drive: An auxilary storage device that works like a cross between a phonograph and a cassette recorder By using plastic disks coated with a magnetic surface, such drives are faster and more reliable than cassette storage.

Interface: The part of the computer that permits the attachment of perpheral devices. These include cassette.

recorders, joysticks and a connection for a TV set or monitor

Modem. Modulator-demodulator A piece of equipment that allows computers to communicate with each other over telephone lines. Interpreter: This translates programs

from human-readable form into a series of codes the computer can understand. This makes using a computer a lot simpler for first-time programmers.

RAM: Random Access Memory. This is the internal memory the computer actually uses when running a program. It can be revised or read an infinite number of times.

ROM- Read Only Memory This type of memory salso interhal to the system, but it cannot be altered by the computer operator. Its contents are fixed at the factory and can't be changed Most computer games bought in ready-to-play form fall into this category.





This column will answer any questions readers may have about the often complex works between the often complex works between the column and the complex works and the column and the colum

And now, on to the first questioni

Q: Do videogames damage television sets?

A: No, no, a thousand times not All the programmable videogame and computer systems covered in EG use sophisticated color-shifting routines that keep any single hue or image from remaining in the same spot on your TV screen for any length of time.

You will often notice that when your videogame system is on, but not in an active mode, the background colors change periodically. This prevents the phosphors from permanently. "imprinting" an after-image on the screen

Wony about damage to the FV set dates from the infancy of the hobby Alas, many companies that produced 'Inad-wred' videogames in the past were unaware of the potential difficulty As a result, many sets wound up within ghostly white inte running down the middle of the picture tube. a memento of all-night Pomp sessors.

But you can relax. That just isn't a problem with modern systems

O: Atari's Star Raiders is my favortte game for the 400 computer. I'd enjoy it a lot more, though, if I could figure out how to make my space ship dock with the Starbase for refueling. I've followed the Instructions to the letter, but nothing happens. Am I doing something wrong is or is my ROM cartridge defective?

A: Odds are that your ROM cart is in perfect working order. It's the instructions—so precise in most respects—that are a trifle out of whack it's actually quite easy to achieve docking orbit in **Star** Raiders once you understand the procedure and get the knack

Any confusion anses in the description of how to set the ship's velocity in normal space. Although a couple of other buttons yield an apparent speed of zero, only pushing the "O" (zero) key actually brings the craft to a 100% dead stop. Once that's sear the rest of the process is pretty straightforward.

Use the coordinates provided by the computer to bring your Inj. as some to the starbase as possible. Sam on the total starbase as possible. Sam on the console. Then center the starbase in the constants Attinsport tre-mange words. "Other Established is in hash on the screen alon, shuild credit with building to dispense file, and your ship will be coady to return to the spaceways!

And if you think **Star Raiders** is fun now was until you try it incorporating docking!

Q: I have problems every time I try to load a game cassette into my computer. Sometimes It runs for awhile, stops suddenly and flashes an error message. What am I doing wrong?

A: Take heart valiant gamer. The fault lies not in yourself but with the varying lengths of "leader" (banktape) software suppliers use in making their cassettes. One sure way to lick this problem every.



time is to first run your tape through an ordinary audio cassette recorder. When you nit the tell-tale high-pitched squeal of the program's lead-in, stop the recorder. Rewind the tape of fraction of an inch by hand, reinsert in the computer's cassette loader and try again.

O: I thought all computer games on cassette were written in BASIC computer language. But the Atarl 400/800 version of Space Invaders loads directly into the machine without the assistance of the BASIC ROM cartridge. How is this possible?

A: Let's first correct your "base" msconception. BASIC isn't the only language for writing computer games. BASIC is simply the most popular—at east for home use—of several lan guages created to help numans communicate with computers in a way we find at least sem-comprehensible.

Each type of microprocessor, nowever, can aso "speak" another tongue, called "machine language" that is not directly understandable by people. Since Space Invaders is, in fact, written in machine anguage, no BASIC interpreter is needed to help the computer decode the message.

Incidently, machine language has several advantages over BASIC. The most notable, from the point of view of gamers, is that the computer can "read" it a lot faster. This greatly speeds up onscreen action, especially, improving joystock response time.

Also, computer experts are constantly developing new languages. A language called PASCAL is being used to write several upcoming new games, according to reports, and this promises some exciting breakthroughs, particularly in the area of game graphics.

That empties the doctor's question box for this issue, gang, but now it's your turn! Not only will EG be printing—and answering—the questions you submit beginning next soue, but I'm even going to provide a little extra incentive I'll send an Electronic Games I shirt to the reader who poses the most interesting question each issue.



YOU ARE ABOUT TO ENTER AN ALTERNATE WORLD WHERE DREAMS-AND NIGHTMARES-COME TRUE WITH FIRE BREATHING REALITY!

A Computerized Master

Ten rings of power he hidden within the Dark Lands of the evil Ringmaster. In gloomy dungeons, Crystal caverns, Molten infernos. And mysterious shifting hatls. Each posing its own challenge. And its own threat.



Game Components





Odyssey Master Strategy Game Cartridge

Each ring is guarded by the treacherous minions of evil that lurk within these halls of doom, Menacing Orcs and



Firewraths. The loathsome Spydroth Tyrantulus Doomwinged Bloodthirsts. And hiddeous firebreathing dragons





As a member of a small company of legendary heroes, you embark on the supremely dangerous search for the rings. The Quest begins as you summon the Heroes to the screen using the computer and keyboard overlay And whichever identity you choose will equip you with potent weaponry needed to battle the armies of the Rinamaster. As a warrior, you carry an enchanted sword. As the wizard, you cast formidable spells. As the mysterious Phantom, you can walk through walls. And as the Changeling, you wear the cloak of invisibility.











Crystal Caverns

N A P. Consumer Electronics Corp.

A Computerized Master Strategy Game by Odyssey2

The Quest



Upon entering the Dark Lands where a ring is hidden, the Ringmasters minions begin their attack. Obtaining the ring becomes a difficult task Requiring courage and even self-sacrifice, as players work together to outwit and outfight

the Ringmaster's monstrous Nightmares in exciting onscreen action. If all ten rinas are captured before the sands of time run out, the Rinamaster has been defeated. If not, he has won The Quest for the

Rings is the first of the all new Master Strategy Series from Warriors Odyssey Applauded as a first by true game enthusiasts, Quest for the Rings offers the combined fast pace and excitement of on-screen action with the intense strateay of gameboard competition









Heroes search from castle to castle in a quest for the ten rings of

encounter The Dungeons - castles built by men, then captured by

the Ringmaster's armies The infernos — towers of molten lava that will

Caverns - with invisible walls. And The Shifting Halls - that conspire

snuff out any player who comes in contact with them. The Crystal

power, hidden on the gameboard by the Ringmaster, You'll







1 Keyboard Overlay Master Strategy Game Cartridge





1 Gameboard Map



Dragons

Ten rings of power he hidden within the Dark

dungeons, Crystal caverns, Molten infernos,

And mysterious shifting halls. Each posing its

Lands of the evil Ringmaster. In gloomy

own challenge. And its own threat.

Each ring is guarded by the treacherous minions of evil

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N A P. Consumer Electronics Corp.









Shifting Halls



nfernos



And thus mankind's quest for rings of enchantment continues. As it has for thousands of years. Many finds have been rumored, yet few have ever been documented. And though no recent discoveries of such rings can be authenticated, the excitement and mystique surrounding their existence is ever strong and ever present. Concluding that man's Quest for the Rinas is still very far from over.

Quest for the Rings is here now. Waiting for you to accept the heroic challenge and adventure it offers . . . in the relative safety of your own home. Don't wait. Begin your own exciting Quest for the Rinas today!

Dungeons

Crystal Caverns

Strategy Game by Odyssey²





Upon entering the Dark Lands where a ring is haden, the Ringmasters minions begin their activation of their activation of their activation of their activation of their self-searlice, as players work together to outwith and outlight the Ringmaster's monstrous Nightmares in exciting on-screen action. If all ten rings are captured before the sands of time run out, the Ringmaster has been defeated. If not, he has won defeated in the same was the same actions of the results of the resul



Warriors Tist by the James Warriors Strategy Series from Odyssey Applouded as of first by true game enthusiasts, Quest for the Rings offers the combined fast pace and excitement of on-screen action with the intense strategy of gameboard competition

Doomwinged Bloodthirsts

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"THE QUEST FOR THE RINGS" ADDS TO THE NUMBER OF EXCITING ODYSSEY GAMES.



"The Quest For The Rings" signals the beginning of the Master Strategy Series — and a highly advanced era in video game systems. Right now it's unique to Odyssev².

Players combine gameboard strategy with on-screen video action through use

of the computer keyboard.

It's just one of many exciting Odyssey² games now available.

Others range from sports to arcade to educational games.

And more new games are under development. As each one is introduced, it will not only add to the selection, but will generate

added enthusiasm and interest in Odyssey2 and its library of game cartridges.

To keep customers coming back for more. To keep The Money Machine cranking toward your million-dollar goal.









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HOW TO ZAP MORE SPACE INVADERS ****

he only thing that's more fun than piaving electronic games is piaving them well enough to beat your friends and relations more often than they beat you Losing gracefully may qualify as polite behavior, but winning with style is a lot easier on the nerves

This column intends to help you upgrade the quality of your play. Each month, I'll analyze a couple of the most popular electronic games and pass along some hints to help you score higher at them

To start things off, let's take a closer look at a couple of certified videogame classics

Space invaders. In the Atan VCS version, the presence—or absence—of the



by Frank Tetro Jr.

protective shields determines the best strategy. After destroying the first three hordes of airen invaders, players must adjust their tactics to allow for the lack of shelter against the rain of bombs from above

There are dozens of methods for eliminating the first three sets of invaders. but here's one that seems to work for most people

As soon as the game begins, side the honzontally mobile cannon to the extreme right and destory the vertical column. Then zip over to the far left and knock out that vertical column

At this point, the mother ship will appear at the top of the screen. Destroy it Next, swing back under the aliens and zap those in the two lowest horizontal rows

This leaves the player with a tightly grouped field of 16 invaders. Wait approximately seven seconds, and you'll be rewarded by the appearance of another mystery ship. After collecting bonus points for eliminating it, wipe out the remaining attackers to bring on the next batch of nasties

The real test begans with the fourth wall since no shields stand between the defender and Earth's would-be conquerors. Starting at the left edge of the payfield, expunge the bottom two creatures in each column as you move the cannon to the right

Eliminate the vertical column at the extreme right, whizz back across the bot tom of the playfield and do the same to the column on the far left. After w.pmg out the column to the immediate right of

the one that just bit the dust, just 12 avens will be left. Right about this time, the mother ship should be making another one of its flights. After dealing with it in the customary manner destroy the remamma aliens in whatever order seems

The next batch of aliens will start even lower mowever, all the walls after that will begin from the same point. The strategy outlined previously will still work just fine

Arcaders who've practiced quick shooting should be able to blast aliens until their hands get tired

Breakout. The object here is simple destroy a multi-layered waii one brick at a time using a horizontally movable paddle to send the ball careening at the target. To a great extent, Breakout is less. a game of strategy than a stern test of motor skilis and hand-eye coordination A piaver without a definite plan can still score well by keeping the ball bouncing around long enough The following suggestions should

continued on page 72



Electronic Games 29



CAN ASTEROIDS CONQUER SPACE INVADERS 2





Ladies and gentlemen, on the right, from California, the challenger, ASTEROIDSI On the left, from Japan, the champion, Sil

You hear the topic discussed where ever electronic garners congregate. On lines in coin op pariors and between rounds in front of programmable home arcade systems players debate the same intriguing question. "Which is better, Asterolds or Space Invaders?"

It's certainly easy enough to make a good case for either title. Some arcaders love the symmetry of **Space Invaders** white others prefer the uppredictability of **Asteroids** Both nave garnered popular and financial success in every area of electronic garning—wideogames. com mercial arcades computer games and stand-alones.

Will Asteroids replace Space Invaders as number one in the hearts of ar caders? The seach for the answer to this question must take us back to that wonderful year 1978 for a little history iesson. The year 1978 was very, very good for electronic gaming.

That's when both the Atan VCS and Odyssey? appeared generating renewed interest among **Pong-we**ary players with their programmability. This concept of a single system capable of playing an unlimited selection of games revolutionized the entire hobby of arcading.

Meanwhile another revolution was beginning in Japan. A then-small Pachinko company introduced the first mode, of a new coin-operated videogame.

Taito, Ltd., called it Space Invaders Almost immediately, it began to exert a profound influence on the island nation. Within months intowagition Ltd. Japain's largest Patchinko manufacturer coased its doors for good. By the end of the first year, Tako had installed over 100,000 Space Invaders machines and raked in over \$600 million, the Bank of Japan had tippled production of 100-yen pieces and the Japanese PTA had tired to bansh Space Invaders on the theory that it inspired kids to play hookey. Users if the view seekle.

Word of this increable success stop, soon reached Amenican shores. Mid way, the Baily con-operated game disson, bought the U.S. rights to \$1, and a fad was on its way to becoming a life-style. The hypnotic progression of the vading allers enthralled gamers everywhere. The now familiar march beat that accompanies SPACE (INVADERS

Electronic Games 31

can ASTEROIDS conquer

and graphics frills astonished those who thought Pong defined the videogame universe. Finally, players had an electronic game that went beyond the oid bail-and-paddle configuration

Sensing the desire of American arcaders for a home version. Atari acquired the programmable videogame rights to Space Invaders from Taito in 1980 Adding Space Invaders to its library of cartridges paved the way for Atar's dominance of the nome videogame market. This one overwhelmingly desirable title sold the entire VCS system in many cases

Atan's Si tournament kept interest in the game at a fever pitch. Finally, all those closet Han Solo's would have the opportunity to strut their joystick stuff in public More than 10,000 eager players showed up for the regional competitions in San Francisco Chicago Ft Worth, Los Angeles and New York City

Atan staged the competition's finais in a large meeting room in the headquarters of its parent company, Warner Communications in the Big Apple Bill Heineman, amid whirting recorders and cycking cameras, emerged from the fray as the first U.S. Space invaders cham-กเกก

The prizes, on display in the adjoining press room included an Atar 800 com puter system and a lovely cocktail version of the company slatest coin op hit, Asteroids, So as SI reached the zenith of ts popularity the heir-apparent waited quietly next door getting an unexpectedly arge amount of attention from media people covering the tourney They, Like most arcade-goers found Asteroid's non-near design and detailed graphics aresistible

So Asteroids was already stealing some of the thunder from the older game. Within weeks the struggle between the two titles for the top spot in commercial arcades began in earnest

Baliy/Midway which feit \$1 had reached the end of the une as a coin-on moneymaker now that it was available in the home version, let its U.S. rights lapse. The company instead concentrated on developing a new game in the \$1 mold but with more co.pr and animation

The result was Galaxian a soupedup Space Invaders loaded with extra features quaranteed to keep the quarters coming. These invaders had wings, and not just for snow either Periodically a tr.o of Galaxian's aliens breaks off from the main force and swoops down the screen raining bombs on the defender

Asteroids differs from Galaxian in that it was never intended to be a son-of-Space Invaders, but rather an entirely new game. Where the action in \$1 is argely symbolic-cute aliens marching down the sky in perfect formation-Asteroids' program is more realistic in both concept and execution

The game plops the arcader down smack in the middle of a deep space asteroid field. By manipulating the machine's five action buttons, pilots can rotate the ship in either direction, move forward by applying thrust, zip into the temporary safety of hyperspace and. most importantly, fire the laser that chops even giant space rocks down to size Atan employed a special process for

Asterolds, called Quadrascan, which is capable of rendering a solid ane of unbroken brightness. The different between Quadrascan and the earlier Rasterscan method is like the difference between a connect-the-dots puzzie and the smooth unes of an etch-a-sketch Quadrascan also makes it possible for objects to drift onto the screen from any direction and at variable speeds. Even without color. Atari engineers are currently hard at work on color Quadrascan-this new type of monitor helped Asteroids make a smashing visual im-

How successful is Asteroids? Let's look at the record it has compiled

- ★ Since October 1979, when Atan's Toperary, Ireland, plant snipped the first machines. more than 70,000 Asteroids units have gone into service worldwide
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SPACE INVADERS

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Unbeknownst to Atari, however, a time bomb ticked away buried deep within the complicated Asteroids program. As an extra attraction, the designers of the original version added a "bonus ship" feature that enabled skilful players to win another life. Destroying the small saucer that periodically puttered across the screen earned the arcader an extra ship

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History unfortunately doesn't record the name of the first arcader who fought rather than fleeing when the saucer snowed up. This approach worked well-too well, some would say Just ask Greg Davies of Fresno, Cal, who bit ed up 15 449,950 points with one quarter (David Jeanise shattered this record on June 14 1981 accumulating 22, 254, 110 points at the Rainbow Roller Rink I

"Whenever i wanted to take a drink or go to the bathroom," Davies recalls "i pried up a bunch of bonus ships " Greg would finish his business and then z.o. back to the machine before the supply of spares gave out.

The idea of a gamer monopolizing a machine for over 30 nours with a single 25° piece made commercial arcade owners how! Some manufacturers even started doing a lively business in modification kits aimed at adjusting the Asteroids program

At this point, Atan itself decided the time was ripe for a new edition. After al. Asteroids was as popoular as ever, and there were technical innovations the designers were itching to try.

Deluxe Asteroids, released last March, embodied several changes. The most obvious is that Atan laid the guadrascan monitor on its side so that it could project its image on a tilted. 50%-reflective mirror. A second screen behind the mirror helps create a 3-D ef

Defuxe Asteroids also replaces the rivperspace option with shields that can only be energized for short periods of time. Killer satellites and "smart" saucers. are also on hand to bedevil players

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And what you may wonder, was happening with Space Invaders while Asteroids was setting the electronic arcade world on fire?

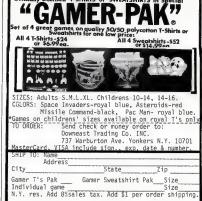
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So the question remains. Can Aster-Atari designers wanted to produce a loids conquer Space Invaders and replace t as the leading electronic game? A New York City arcade operator provides what may well be the best answer. 'They peacefully co-exist. he explains "I've got plenty of room for both. But it's funny, people who have Space Invaders at home still occasionally like to play it here People love Asterolds but they also love shooting up those aliens Let's call the battle between Asteroids

and Space Invaders a draw Both of now marketed Space invaders in this them are certainly winners in any



SPACE INVADERS?

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Let's call the battle betwen **Asteroids** and **Space Invaders** a draw. Both of them are certainly winners in any gamer's book.

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*** ** Uhat's next for







by Bill Kunkel and Frank Laney Jr.

ne of the most exoting aspects of electronic arcading is the number of new games constantly neading to market it may be hard to believe, but as great as efectronic games are today even more fasonating ones are was ting just around the corner to dazzle and de-

Making predictions is always a risky business, and it's even chancier when the subject is a hobby as explosively in-

novative as electronic gaming. Fortunately, it isn't necessary to resort to a crystal ball or even a super-computer to find out what's barreting down the road toward us in the near future.

Thanks to the existence of industry trace shows. It's possible to get an advance peec at upcoming wideopames, sund-alone devices and computer software without bringing out the Ouga board. For those unfamiliar with trace shows they re-maintenance to the products for the nation's white manufacturers previous they are never products for the nation's men never products for the nation's

shopkeepers. The games we'il be buying this holiday season—and next summer—grabbed centerstage at the Chicago Consumer. Electronics Show (CES) held last summer.

Ordinary consumers can't get past the front gate, but fortunately **Electronic Games** was there to get the fowdown

Although there are numerous videogames just reaching the stores for giftgiving, the flood of new titles will slow

Gamers give Ataris new Remote-Control VCS a workout at CES



** Uhat's next for electronic games?





BOW/LING



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down this summer Some of the manufacturers are having trouble keeping up with the booming demand for their exsting cartridges. It's no secret that the America's legions of VCS owners search for some of the more popular titles

Atar, for example has decided to ease up on videogame introductions unti-

they can make enough copies of their - Control VCS. Not only does this innovanew super-nas-Missile Command, Wariords and Asteroids - to satisfy

Which is not to say that the Sunnycan be as challenging as any fantasy vale. Caligiant is going to sit on its corporate hands. Aran used the Consumer. function as both paddles and lovsticks. Electronics Show to premiere its Remote

tive systeme iminate the stranging spage netti of wires that always seems to sur round videogame consoles, but it offers some other attractive features as we? The wireless controllers for example, which will make changing cartridges easier in many cases. They even let the arcader select the desired game variation or start a new round of play without stirring from that comfy chair across the

The big breakthrough in videogame software is the "souped up" cartridge Atari Activision and Odyssey² will all be introducing them soon. Up to this point, ROM cartridges for videogame systems have included 2 000 bytes (2K) of programming information. The manufacturers have begun to equip some of their cartridges with 2K of additional memory Iwnich accounts for the higher pricetags. on some of the newer games). This development will certainly lead to the introduction of more soph sticated and en tertaining-titles in the near future

Activision is making use of extra programming power in Ice Hockey its first team sports title. Designed by Alan Miller Ice Hockey uses those extra bytes to at tain remarkable realism. Each team consists of two on-screen players, a forward





electronic games?





BOXING

down this summer Some of the manufacturers are having trouble keeping up with the booming demand for their exsting cartrodges. It's no secret that the search for some of the more popular titles can be as challenging as any fantasy game quest.

Atari, for example, has decided to ease up on videogame introductions untithey can make enough copies of their new super-riss—Missile Command, Warlords and Asteroids—to satisfy America's legions of VCS owners

Which is not to say that the Sunnyvale, Cal, giant is going to sit on its corporate hands. Atan used the Consumer Electronics Show to premiere its Remote Control VCS. Not only does this move, as the system emmatter extraining as spainers of wires that aways seems to surcound videogram consoles but a offers some other attractive features as well. The wireses controllers for example, funding as both padders and joystels which will make changing cattridges baser in many cases. They even let the arcaders extit the disease gainer varietion or start a new round of play in thous twinning from that contry chair across streroom.

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*What's next far electronic games !



and a goalie. Both are free-skating, with the one nearest the puck automatically coming under the arcader's direct control The portion of the stick blade with which the puck is slapped determines the direction in which the shot travels fce Hockey also features stick-handling. body-checking and tripping-and the most true to-life animation possible. One thing is missing, however. There are no officials to call penalties "I always thought it would work better without a referee," explains true hockey fan Miller

Stampede created by Arcade Award

We Beat the Price .

winner Bob Whitehead is a completely like in a real alley different affair It's a us like the popular Fishing Derby turned on its side Players direct a video compuncher who ndes up and down the range located on the left side of the playfield in front of him are the "dogies" who git along" at a pretty good cip. Players must keep the cows in front of the cowboy, dodge obstacles and asso as many animals as

Although Odvssev⁴ is bringing out a slew of interesting games including UFO, Allen Invaders-Plus and Monkeyshines the company's Quest for the Rings is the most exciting release. The first game in Odvssev2's Master Strategy Series Quest is the first hybrid boardgame videogame in history Utilizing a special over air that fits on top of the console keypoard and a colorful game board Quest for the Rings sends players on a fantasy adventure in a magical kingdom. Arcaders can choose to be any of four different characters, each possessing a unique special power Odvssev² will release its second Mas-

ter Strategy Senes game Conquest of the World, sometime during 1982 in that one, gamers plot overall war strategy and fight tactical ever battles using tanks, jets and submarnes

Matte still hasn't gotten the longawaited intellivision keyboard ready for sale, but it will bring out a wide range of new cartridges for use with the master component

Boxing and Bowling, the atest additions to Mattel's library of sports titles, should be in stores in time for the holidays. Both feature the high resolution graphics that have been leaving gamers goggie-eyed since intellivision made its debut. The animation is particularly fine in these two. The winning fighter raises his hand and does a victory dance while Bowling shows an automatic pinsetter clearing away the deadwood and postioning the pins for the second ball just

Mattel also is releasing several games in the space/arcade category Astrosmash, the most entertaining of them, is a clever combination of Asteroids and Space Invaders. The player moves the on-screen ship back and forth across the bottom of the field, shooting at-and sometimes dodging-a rain of meteors from above

Several manufacturers of stand-alone chess-playing computers have new products which they hope will win a share of the large J.S. market currently dominated by Fidelity Electronics and its Chess Challenger line Scisys, Novagand Tryom (already big in computer back gammon) ali have new products about to hit retail stores across the land. The big attention-getters at CES were the Novag Robot Adversary, which moves the pieces with a mechanical arm, and Fidelity's gordeous Decorator Challenger

Mattel isn't going to neglect fans of stand-aione games in 1982. Besides new World Championship Footballand Base ball hand-held units the manufacturer is also unleashing a pair of electronically enhanced boardgames, Dungeons & Dragons and Dallas.

D&D is, of course based on the fantasy role-playing game that has become quite a craze in the last year or so. The most interesting feature of Dallas is that the computer represents J R and is programmed to cheati

And that's now things look for the balance of this year and the first half of 1982 Predictions for further in the future would only be an exercise in futility, because there are now hundreds of designers working on electronic games for publication within the next 12 18 months It's entirely likely that a youngster bent over a computer in the family garage is putting the final polish on a new electronic game that will top even the wonderful ones already poised to astound arcaders in the year to come







The Entertainment

It Started With Pong

t started in a garage rate in the 1960's. That's where Noian Bushnell created the game that eventually took the world by storm-Pong While many hands contributed to the creation of the electionic gaming hobby-both Atar, and Odyssey made numerous breakthroughs in those early days-there is little question that Bushneil's vision of a hobby that the entire family could enjoy and share on an equal basis has become the guiding philosophy of electronic arcading Videogames, especially the programmable game machines that nook up to the family television set have become part of the fact of American ife. These cames are an entirely new form amounts to a home entertain

No longer must we st pas sivery in front of the television set

watching others have exoting adventures. With a paddie or joystick in hand, the arcader is ready, willing and able to defend the earth against aliens. race high-powered cars at the Indianapol s Speedway or throw an 80-yard touchdown in the waning seconds of the game!

ADVENTURE





VIDEO OLYMPICS

The Arcade Awards

Video Magazine established the Arcade Awards -"Arkies" for short—it recognize outstanding achievements in the field of elec trong gaming. The first set of Arkies was announced in February 1980 and covered a Lhardware and software produced prior to Jenuer, 1 1980. The 1981 edition of the awards reflects accompishments during the 12 months of the preceding year, a practire that will continue in the future

Beginning with the 1982 Arcade Awards Electronic Games madazine is assuming the role of co-sponsor. Following is a rundown on the winners in the various software categories for the 1980 and 1981 Arcade Awards

1980

Best Pong Variant: Video Olympics (Atar.) Just about any game that can be played with ball and paddle can be found on the each casse Volleyball will delight even those long jaded by video

Best Sports Game: Football (Professional Arcade). A gorgeous, scroling grid ron a wide choice of plays and socko animation characterize what is still among the best of all sports simulations.

Best Target Game: Air-Sea Battle (Atan) The first great video shooping gallery offers a -wide range of weapons from ack-ack guns to torpedoes. Many variants include the "guided missile" option.

Best S F. Game: Cosmic Conflict (Odvssey*) This tactical combat triumon puts would be Han Solos into the cockpit of a space fighter Keep firing those space torpedoes because there's no shortage of at tack no ships!

Best Solitaire Game: Golf (Odyssey2) Ground-breaking inpoyative and still just as much fun as the day it was introduced. The animation of the onscreen golfer when he misses a shot is priceless

Most innovative Game: Basketball (Atar I Designer Al Miller floored the videogame world with his trapazoidal court. This provides the depth-of-field needed to make this an outstanding one-on one version of honors



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Revolution!>--Videogaming

Game of the Year: Superman (Atan) Up, up and far and-away

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gamer play Man of Steel to catch Luthor and his gang and rebuild

Best Target/Wargame: Armored Battle (Mattel) This has the

same relationship to the typical video tank battle as the Concorde

goes to a box kite. Full-bodied graphics put this simulation in a class.

Best Pong Variant: Voileybail (Odysseyl) A remarkably in

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Best Sports Game: NASL Soccer (Mattel) A scrolling playfield and

the ability to pass to off screen men give arcaders the chance to

coach 10-man squads in what many believe is the crowning jewel

Best Innovative Game: Adventure (Atan) Fantasy gaming

made its videogame debut with this title. Three levels of difficulty pro-

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The alien ships dip, dodge and fire right back.

Today

the bridge they destroyed

1981

by itself

games

efforts

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Right about the time most arcaders are flipping through this first issue of Electronic Games, some retailer is selima the five millionth programmable arcade system Since more than two-thirds of these machines have been bought on v within the last vear, it's safe to say that interest in home arcading is presently rocketing into the stratosphere Since the prime attraction has always been programmability, it should come as no surprise that

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COSMIC CONFLICT





SKIING

38 Flectronic Games

Revolution

Videogaming Today

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SKIING



ATAR! VCS



The VCS System

The Atani VCS didn't become he most popular programmable videogame machine in America by accident. What the consore racks in glittery spaceage styling, it more than makes up for with rugged construction and logical design.

There's no question that the VCS is built to withstand the ngors of passionate play. The heavy-duty plastic case easily takes the bangs and bashes of younger arcaders—and some frustrated o der ones, too All functions are controlled by

two position side switches convenently located on a front facing pain-ion either side of the carriange side. The contole's real face provides connections for two joystosis or four paddles, and changing from one type of control er to another takes a matter of seconds. (Alan also offers a keypad for use with some games, and a special viral attorn of its standard paddle that comes packed with the Indy 500 calnitide!

Afair captured the imagination of arcades with the large number of carringes it makes available for the system Whether you like arcade-style dexterty games or video chess there is sure to be an Aran caitinge—and in may cases several of them—that his the spot. The company has always proven sympathetic to the needs of is players to there is all qool to ATARI OFFERS LARGEST GAME UBRARY

selection of solitaire games as well as head-to-head contests.

The Sunnyvale, Ca., giant also thes to provide a lot of flexibility within each cartridge Some titles include viewover 100 game variations! No one loves them all, of course, but the

availability of so many options lets gamers customize most of the cartridges to fit their pre-

ferred style of play
Owners of the VCS system
also frequently benefit from
Atan's involvement in the field
of coin-operated electronic am-



UPERMAN



MISSILE COMMAND

ATABLACE AT A GLANCE

	AJARI VCS AI A GLANCE								
System Name	Mfrs' Name & Address	List Price	Type of Controller	Type of Keyboard	Sound Source	Number of Cartridges			RF Modulator
Atari VCS	Atan Inc. Sunnyvale, Ca	\$199.95	Joystick Paddle Keypad	None (Uses keypad for some games)	TV.	43	\$19.95- \$29.95	Yes (Included)	Yes (Included)

usements Often, titles that establish credentials in the commercial arcades will subsequently be made available in home versions. This process has brought such super games as Space Invaders, Breakout, Missile Command, and Asteroide to the home screen.

rolds to the home screen
Atan also leads when it
comes to backing up its progarmatible widogame system
with service. Replacement
both—the AC adaptor and Remodulator aren't quite as suury
as the console—have alwaybeen widely available, and the
company's now establishing a
network of Soorepar stations to
provide factory-authorized server from coast to coast.

Game Software

Space Invaders. This is clearly the best home version of the single most popular coin-operated attraction of all time. There wouldn't be indeograms without Pong, but it's doubtful that home areading could have become the rapidly growing nobby it is today without the impetus supplied by unparalleled success of Space Invaders.

Those outer space attacers never rest until they've marched down the playfield and pulverized the defender's three gurs. The Atan carridge lets expert 3 players test their skill against chaininging opporal ruse. sike fast bombs and invision series with the state of the state of

rounds.

Superman. As the Man of Steel, the garrier must capture Luthor and his four henchmen, cart them off to the Metropolis jail one-by-one and rebuild the city Strolge in the stoness obsibetime. The on-screen hero has super strength, the power of flight and super-vision to make the mission esser, but took out for the keypotionate bombs. They can not Superman of his specia, powers which, in this garrier at least, only tourning Los Lame.

can restore
This solitare game requires a
good memory, sharp planning
and some hand-eye coordination to play successfully
Although Superman is a race
against the clock, blinding
reflexes aren't nearly as impor-

tant as making the right move at the right time

Breakout. The classic ball-andpaddle game has stood the test of time and become a certified classic. The Atan VCS version is equipped with enough varitions to satisfy even the most jaded biaster of multi-colored brick wass.

Those who haven't got the patience to nibble away at the barner one brick at a time will want to investigate the Breakthrough variants included on the cartridge in these games. the bail cuts a complete pathway right through the entire wall each time it ricochetes off the paddle. The cartridge does, admittedly, lose some of its sizzle when you improve enoughtowipe out two walls with the first ball, but that feat takes most players some time to accomplish

Missile Command. Yet another commercial arcade classo: has made a highly successful translation to the home screen. Instead of the usual wide range of carefully graduated skill levers, even baby brother or sister can easily adjust. the difficulty to insure an enjoyable game. The only major element missing from the home version is the lightning-quick track-ball controller used on the com-op machines.

Although the on-screen action may look somewhat netterskeller to a novice, the better-Missile Command players appear to do quite a bit of advance planning to dispatch the maxmum number of in-coming rockets with the fewest possible defensive missiles.

Air-Sea Battle. It's easy to forget the classics in the rush to play all the great new games. In this case that would be a grievous mistake since this remains one of the finest cartndges in the Atan Jorany Best of a solid batch of games included in this title is Torpedo. Two players fire at passing ships, competing against each other and the clock in this fast-paced target shoot. It makes an especially good choice for a small tournament, since a three-game series can be completed in about 10 minutes. even allowing a little time between games for dawdling Many players will also enjoy the Shooting Gallery variations and the anti-aircraft games also



REAKOUI



AIR-SEA BATTLE



The First Videogame Software Company

ardware is certainly important, but most arcaders agree that software make the videogame world go fround That's why the annual of Activison on the scene ranks as a najor milestone in the annual of electronic gaming.

ActiVision is unique among videogame companies, be-cause it's the only one that doesn't offer a complete system of as own Jum Levy and the cadre of veteran designers who banded together to form Activison want to develop it as a reliable source of high-quality software.

So far, they've succeeded admirably. At the present time, the California-based suppier is concentrating on producing cartridges for use with the Atai VCS. Since its mid-1980 start. ActiVision has created approximately a dozen new games to deligit? VCS owners

The company has already developed a style that's almost instantly recognizable by experienced arcaders. ActiVision sel-

activision

More Games For The Ataci



12141413

dom does the obvious game, for one thing, preferring to develop concepts never before tried in the videogame field. The resultis a string of unorthodox. and excellent—cartridges including such novelty hits as Fishing Derby and Preeway.

Streamined graphics spiced with cartoon-style animation also differentiate ActiVision products from games produced by other firms.

Game Software

Fishing Derby. This one knows no age barrier, because even those without super reflexes can have a whale of a good.



FISHING DERBY

time its superb animation will appeal to law weared on Saturday morning cartions: while the still elements should bease most adults. Fishermen sit on docks located at the left and night edges of the payled and attempt to hook the finny targets that swirn back and forthin the water below. And just when gemens think its safe to go back in the water, the order sampler's prospective cach angler's prospective cach.

Boxing. Calling all electronic rocky Bailoda's. The joysticks direct on-screen puglists around a ring viewed from the overhead perspective. Arraders decide when to show a punch—or try to block one—but the computer itself chooses the type of blow based on the fighters' relative ring positions. Each round lasts only two minutes.

Freeway. Only those lacking a sense of humor could fall to love the idea of seeing a chicken across the road as a videogame concept. It's more than just a good idea, though, Freeway is a sould one or two-player game featuring the kind of non-stop action most arcaders love.

Tennis. This cartridge proves once again that a game doesn't have to be complicated to be enjoyable. In this joystick contest, the place where the ball hits.



BOXING

the racquet determines the direction of the shot, with the angle depending on the level of difficulty in use The outstanding graphics touch here is that the shadow of the ball is plainly visible on screen, traversing the grass court as the spinere is volleyed back and forth

Laser Blast. Tired of defending against the hard-charging hordes of Space Invaders? This sit the game that less arcaders move over to the offense against the creatures from space. Players control a flying saucer that makes attack runs against enemy ground-based gun positions. I funabout on the aliens is fair play, indeed! *



LASER BLAST

Custom Control With LE STICK



Gainers searching for the ultimate home arcade control device should check out Le Stick, available from Data Soft, Inc., for \$3 99 Each for the Alan VCS.

This is a true poystok, too, with attractive handiging and in top-mounted action button it is entirely free standing, has no stationary base and darrowder instant response through the use of soghetiscand mercup-filled in.

switches Unifortunately, there are still a few bugs in the system. Of the pair tested by **Electronic Games**, the first work ed perfectly in an directions but South, while the other performed perfectly.

There's also the potential problem of over sensitivity. Some gamers, trained on the typical Atanjoystick, may find LeStick a bit too much to handle at first. Some will never get used to the different feel.

Some games are reasy improved by playing them with this special controller. The biplaine variant on Atan's Combat carridge was a reveigition, and the outsor movement in Missile Command became as fast as an arcarte transfer.

Once DataSoft has ironed out the few remaining problems. Le Stick should fulfill its potential as a deluxe controller for the truly discriminating gamer.



Zacon, Inc may be the most mappropriately named company in the entire video-game business. Certainly what the firm a cloning for owners of the Channel F system previously manufactured by Farichild Electronics is worth its weight in cliamonds.

Beginning in time for the

Beginning in time for the 1980 gift-gwing season. Zircon tooktie Channel Fouch mothbalk and stated trying to service owners on the customer list bequesthed to it by Farchidi Noony's a discon marketing the questhed to the yaren pust before the system gas shelved by the orginal owner, but the company is willing to help easing owners upgrade by offering a specia, deal the new unit costs only 569 95 with a tradelen Channel F

The system itself has held up very ricely despite the passage of years and the advent of new technology. The controllers, which combine paddle and joystick in a single device, work welf and allow designers great labitude with their game de-

Zircon is rapidly getting the



ZIRCON Revives Channel 7





extensive Channel F game ilbrary into full distribution again, and hopes to have some exciting new products of its own to show the near future

Game Software

Whizball One thing's for sure, this one isn't exactly like anything ese available to nome arcaders. Whizbail pits a pair of gamers against each other in a contest to see who can fix contest to see who can fix whizballs at a large floating block and nudge it through the opponent's qual.

Slot Machine. Very attractive full-coor graphics highligh this electronic gambling carrodge. A picture of a large, one-aimed bandit dominates the screen The farmhar three windows display the vanous pieces of fruit that mean so much to gamblers everywhere.

Football. The players are dependent on screen as fittle "X" is and "0"s, but play sn't bad at all A total of 14 vanations give coaches some scope for girdfron brainstorming. Graphically, Football most closely resembles an animated blackboard on which diagrammed plays magically unfold. *

			— ÇHA	NNEL F					
System Name	Mfrs' Name & Address	List Price	Type of Controller	Type of Keyboard		Number of Cartridges			RF Modulator
Channel F	Zircon, Inc Campbell Ca	\$99.95 (\$69.95 with a trade-in)	loystick/ Paddle Combination	None	T.V.	24	\$18.95 \$29.95	Yes (Included)	Yes (Included)

Emphasizes





The Odyssey² System

t isn't always a blessing to be a pioneer. Odyssey has taken several years to bounce back from the kind of problems that all too frequently beset true in povators.

The company's original Odyssey game, marketedunder the Maganavox imprint. Introduced the dea of programmable videogames to the world and did much to spark enthusasm for home arcades in this country.

Unfortunately for Magnavox, it created an appetite it could not really satisfy. Its designers based the device on the technology available in 1970, which resuited in a rather crude system by present day standards. It dan't take long for competition to relate that the folis over at Coysey had discovered a blonn of bit ocnept. They were quick to enter the market with systems of their own. These entires profited mightly from Odysey's beginner of the form Chydrey's beginner of the home arcade market. E-almig Odysey floundering in their wake

But not for long Rather than charge into the fray bindly, the company worked long and hard to develop a machine equal or superior to anything available to home arcaders. They have succeeded. The console has fewer game function switches than some other systems, primarily because a doesn't really need them. The keyboard provides air the buttons arcaders—and Odyssey's designers—wul probably ever need.

Odyssey's controllers are permanently attached to the console unit. They're of the joystick type, which means that some games that might otherwise be handled with paddles are adapted to the stick instead

Odyssey? boasts the second largest game library in the home arcade field, and it's growing at a rapid rate. Odyssey has made. a major effort to widen its game offernas and fill in some of the gaps in its line such as the former scarcity of softaire contests. A gance at the latest catalogue indicates that their efforts have been crowned with viccess Although sports and science fic. tion are the towering strengths of the Odyssey² cartridge line. there are now fine games in just about every catagory

Game Software

UFO. As commander of an Earth Federation saucer, the arcader battles a seemingly endless supply of enemy UFO's The Federation cruiser has a defensive shield and a powerful gun but it is pathetically vulnerable whenever its systems shut down for recharging Simple bad fluck serages even outer space aces from time to time the space aces from time to time to time accurate treeing and proport medium-and power in the press and it takes a stepling popular and it takes a stepling popular and it takes a stepling popular and it seems and it seems and the seems are to save the way through bow up in IIPO, sincetimer and all least three different types of conflagrations.

Rasebalf, Fans of hardball need look no further than this outstanding cartridge. This is an absolutely classic two player sports simulation. It balances all the key elements of the National Pastime-hitting, pitching, fielding and running-to create a thoroughly enjoyable contest in which no single aspect of the sport is overly dominant. Some of the features include oitch sefection, movable outfielders and stretching hits for extra bases. This home videogame is almost the equal of the best coin-op baseball machines, and it's way anead of the run-of-the-mill ones. Best of all, those little electronic players will never interrupt your fun by caving a strike in the middle of a crucial series.

War of Nerves. Apart from the mevitable tank vs. tank shoot outs, video wargames are few and far between War of Nerves is a happy exception to the rule. This is one of the most entertaining electronic wargames available, packed with enough strategic possibilities to keep armchair generals happy through hundreds of on-screen battles. Each participant directs an army of robot soldiers, which move sem independently across a playfield enlivened by various terrain features. The for tunes of war generally seesaw from one side to the other several times during the course of each military engagement. building excitement to sky-high levels. Since this cartridge's brand of action is radically different from most other videogames, it makes a refreshing change-of-pace



ASEBALL

TAYS FFF Emphasizes Sports and Science Fiction



It didn't take long for competitors to realize that the folks over at Odyssey had discovered a belign-do lar concept. They were quick to enter the market with systems of their own These entries profited mightily from Odyssey's experience and breakthroughs in computer science. The latecomers quickly captured the lion's share of the home arcade market leaving Odvssev floundering in their

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in the middle of a crucial series.



BASEBALL

Computer Golf. Dual playeids distinguish this sports mulation, which oits would be ack Nicklauses against a pleasingly varied nine-hole course wingers tee off on a field depicting an overview of the entire hoje that spots the locations of ne fairway and surrounding hazards. When the goifer finally gets the ball onto the green, the creen shifts to a representation

of the area surrounding the pin for the putting phase of the game. Gamers line up their shots using the lovstick to choose the direction of the ball's path and pressing the action button to requiate the force behind each stroke Computer Golf created duite a str of admiration when it first appeared. and it remains an outstanding cartridge today

Quest for the Rings. This is by far the newest of the five games EG has selected as the foundation of an Odyssey? game library-and it may just be the best of the entire bunch in this boardgame/videogame hybrid. players team up to search for 10 magic rings which the leader of the forces of evil has hidden in labyrinths deep beneath the earth. Gamers may choose any

> ges List Price

combinations of four different types of characters, each possessing a unique special ability Monsters also come in several menacing flavors, ranging from lowly arcs to fire-breathing dragons. Like the non-electronic role-playing games players must cooperate to achieve a victory rather than competing against each other as in most other games

Modulator

(Included)

Yes

Adapter

Uncluded

	- ODAZZE				AI A G	LANCE -
. System Name	Mfrs Name & Address	List Price	Type of Controller	Type of Keyboard	Sound Source	Number of Cartridges
Odyssey ²	North	\$199 95	Joystick	Dlaphragm	TV	25

American Phillips, Knox- vite Tenn	
00 00	



Cartridge A.C.

\$59.95

COMPUTER GOLF



QUEST FOR THE RINGS

WAR OF NERVES



The Odyssey²

t isn't always a blessing to be

a pioneer. Odyssey has taken

several years to bounce back

from the kind of problems that

all too frequently beset true in

The company's original

Odvssev game, marketed under

the Maganavox imprint, n-

troduced the .dea of pro-

grammable videogames to the

world and did much to spark

enthusiasm for home arcades in

Unfortunately for Magnavox,

it created an appetite it could not

really satisfy. Its designers based

the device on the technology

available in 1970, which

resulted in a rather crude system

System

novators.

this country

Sports and Science Fiction

Computer Golf. Dual playeids distinguish this sports smulation, which oits would be ack Nicklauses against a pleasng v varied nine-hole course Swingers tee off on a field depicting an overview of the entire hole that spots the locations of the fairway and surrounding hazards. When the goifer finally gets the ball onto the green, the creen shifts to a representation of the area surrounding the pin for the putting phase of the game. Gamers line up their shots using the joystick to choose the direction of the ball s path and pressing the action button to requiate the force behind each stroke Computer Golf created quite a stir of admiration when it first appeared. and it remains an outstanding cartridge today

Quest for the Rings. This is by far the newest of the five games EG has selected as the foundation of an Odyssey® game library-and it may just be the best of the entire bunch in this boardgame/videogame hybrid, players team up to search for 10 magic rings which the leader of the forces of evil has hidden in labyrinths deep beneath the earth. Gamers may choose any

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H	ODYSSEY ² AT A GLANCE									
	System Name	Mfrs Name & Address	List Price	Type of Controller	Type of Keyboard		Number of Cartridges	Cartridge List Price	A.C. Adapter	RF Modulator
The Person Name of Street, or other Persons name of Street, or oth	Odyssey ²	North American Phillips, Knox- ville Tenn	\$199.95	Joystick	Diaphragm	TV	25	\$19 95- \$59 95	Yes (Included)	Yes (Included)



COMPUTER GOLF





QUEST FOR THE RINGS



MATTIEL FEATURES MODULAR DESIGN







NASL SOCCER





The Intellivision System

"Modular" is the buzzword ar Mattel, which hopes to poston its intervision about half-way between pure videogame systems and personal computers. The idea is to start with the currently available Master Component and then, as times goes by, add the keyboard and other per pieras to create a true microcomputer.

AUTO RACING

Unfortunately the often-promised keyboard is still not available in the stores. Matte, after failing to come through on several announced delivery dates, is now paying its cor protate cards close to the vest. The best quess is that intelligension owners will finally get a crack at this important add-on some time during 1982.

Meanwhile, though, the Master Component is a terrific home arcade. The sleekly designed Master Component ultimately intended to fit inside. the keyboard, is one of the bestlooking electronic devices on the market today

The real prize is the superb Mattel controller. There are two attached to the game, and the console has recesses into which they sto easily when not muse.

they sip easily when not in use Each controller has a keypad, direction disk for movement and a set of four salemounted but tons. Each intervision carridge comes with a stop into the concordisk plant stop into the concordisk plant stop into the conquestion. Mutter designers have been quick to take advantage of this superior control system by despring games which allow an uniquially large amount of payer input.

Intellivision probably has the best graphics of any programmable videogame system in fact, few computers priced under \$5,000 can match the cofor and detail of the typical Interitivision playfield.

Game Software NASL Soccer. By having the

screen scroi up and down the field to follow the action Matte.'s designers really opened up the game tremendously Although only three booters from each team are on screen at any one time, this feature allows coaches to run set plays, pass the ball the length of the field and set up lightning-like scoring drives. The three-quarters view of the field as opposed to the more common overhead perspective—makes the game both visually more realistic and a lot more fun to play

NHL Hockey. No half-meas ures here. Not only are there penalities for rules infractions but violators have a reaustically high chance of getting away with on-the-ice maybem when the referee's back is turned. Action is fast on this trapezoida! rink, with skaters gathering speed when they rush down the ice in a straight line. The computer controls the goales. and it does an excellent job. The netminders will stop almost any simple shot except for a point brank siapper Just as in real nockey, the idea is to make the goalie hit the ice to make a save and then fire home a rebound while the man in the mask is out of position.

Space Battle. Mere tactical skill

oses every time in this one unless it's backed up by sound ong range strategy. In this soldine contest, players deploy a tho of three-ship squadrons against five mighty feets of invaders. Whenever the warming factors meet in deep space, the action moves to ship vs. ship combat. Gappincs especially in

the combat phase, are quite noteworthy. The marauding alen craft have a realistic look se dom seen in videogame animation.

NBA Basketball. This wonderfully authentic recreation of the hoop sport has everything from cheering crowds on the sideline

to passing and shot-blocking. The computer handles all players not directly under the gamer's control, and sometimes it pulls off some ternlic plays in clutch situations.

AutoRacing. Mattelis certainly not the first company to produce a motor sports game, but Auto Racing clearly laps a# the competition. The cartrige offers drivers a wide choice of cars and tracks. making it fairly easy to handicap the better racers and make it an even contest. Highly detailed graphics put Auto Racing in another class compared.

to the usual "round-and-round-

the-ovar" contests

			- INTE	LLIVISIO	N AT A	GLANCE			
System Name	Mfrs' Name & Address	List Price	Type of Controller	Type of Keyboard	Source Source	Number of Cartridges	Cartridge List Price	A.C. Adapter	RF Modulator
Intellvision	Matte Electronics, Hawthome Ca.	\$299.95	Keypad/ Disk Hybrid	(Not yet available)	tv	13	\$29.95	Yes (Built into Master Component)	Yes (included)

IPIROIFIES SHONAIL AIRCAIDHE WIPGIRAIDHES 110 A COMHPW11TIEIR







SCRIBING

Astrovision Plans Revival

Astrovision has gladdened the hearts of the many fans of the Professional Arcade with the announcement that it intends to revive and develop the system pioneered by Bally to hopes to succeed where the original manufacturer falled, and many see considerable cause for optimism.

For one thing, the Professonal Arcade is still one of the most advanced and powerfuprogrammable wdengames ever produced in fact, the concept of a modular hardware system that could be upgraded to a complete home computer may simply have been ahead its time. Astrovision is keeping quiet

Astrovision is keeping quiet about its plans at this time, so it's difficult to know whether the new ownership will put the entire Bally game catalog back into distribution or just selected littles. Like wise, AStrovis on nas revealed no information concerning the development of new games for the system. One thing the company has aleady promised is a ZGRASS keyboard with 24K of memory, but even in this case no firm delivery date is specified.

The Professional Arcade System

the pad as an input device Surprisingly, the Professional

Arcade comes pre-programmed to play three games. **Gunflight**. **Checkmate** and **Scribling** Even more surprisingly, they're all very much worth playing. Another big plus, the Professional Archae is the group of the playing and programmed the group of the

sonal Arcade is the only programmabia videogame that allows players to attach up to four joystickstyle controllers at the same time. (Actually, Bally designers combined the funcions of a joystick and a paddle in a single device.)

Game Software

Gunfight. This two-piayer game is as good as anything you'll find in a coim-op parlor Players move on-screen buckeroos using the joystick, aim with the paddle and fire by pressing the trigger. Each gunslinger gets six shots, after which a revoad cycle begins.

SEAWOLF/MISSILE

Checkmate. Up to four players smultaneously steer ther symbols across the screen, creating serpentine lines. The object is to be the last one to crash into a line or one of the playfield boundanes.

Scribing. Notreally agame, but most arcaders with probably have at least some interest in what may well be the best drawing program available for a programmable videogame. Using the keypad and the controller, it is possible to after the coloir, brightness and flue—and create some electrifying vs.ual effects.

Seawolf/Missile. This carindge contains two highly playable games. Seawolf, a visual stunner, casts two players as submanne commanders, while Missile has arcaders trying to bring down antorne targets with horizontally mobile gurs.*

Electronic Games 47

WHICH SYSTEM'S FOR YOU?



"Which videogame is best?" That must be the most frequently asked question in the nobby of elecy, it's a riddle that truly has no definitive answer

The pain fact is that no single programmable wideogame is for everyone. The nome arcade field is blessed with several excellent systems, certainly all those mentioned in the **Players Guide** can provide years of parming piessive.

A better question to ask is "Which is the best system for me? That one is no cinch to answer either but at least it points prospective buyers in the right direct on

Which system is best depends entirely on what the

gamer wants from the machine Sports ruts will naturally desire a videogame that puts a heavy emphasis on athletic simulations. On the other hand, those who spend a lot of time with conop a ricade-style games would be better advised to

icts of cartridges of this type. Another important con-Sideration is how the system at 1 be used once you get it home from the store and uncrateful fithe arcade spends at of time enjoying his hobby soil, then it makes sense to buy one of the de-

vices that provides jots of op-

seek out a system that offers

portunity for solitare play. Of course, if there's always a roomful of people walling for a turn at the joystick, then head-to-head games take on increased importance.

The table below summarizes the feelings of the staff of **Electronic Games** it should **not** be automatically taken as gospel Rather it is collection of opinions solicited from experienced gamers that is intended to merely serve as a quide

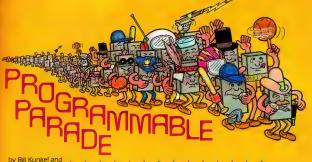
One thing is for sure Whichevergame you finally choose will do its job of keeping you entertained long and well #

Videogame System Scoreboard Chart -

	Atari VCS	Odyssey ²	Intellivision	ActiVision	Channel F
Head-to-Head Games	Excellent	Excellent	Excellent	Good	Fair Good
Solitaire Games	Excellent	Good	Fair	Good	Good
Variety of Software	Excellent	Excellent	Fair-Good	Good	Good
Arcade Games	Excellent	Good	Fair	Far	Fair-Good
S F. & Fantasy Games	Excellent	Excellent	Fair-Good	Fair-Good	Fair
Sports Games	Fair-Good	Good-Excellent	Excellent	Good	Fair
Strategy Games	Far	Excellent	Excellent	Fair-Good	Fair-Good
Electronic Board Games	Fair Good	Excellent	Good-Excellent	Fair-Good	Good
Graphics	Good	Good	Excellent	Excellent .	Fair-Good

Note: These ratings are based on an evaluation by the staff of **Electronic Games**. They consider both the quantity and quality of the offerings within each category. Thus a "Fair" rating may indicate

that there isn't much choice, but what is available is good to excellent. The best evaluation is the one each arcader makes for him or her self.



The worst thing about **Quest for the Rings** is its gire deged pince, which is
considerably higher than for any other
videogame carridge on the market. The
best thing about this fantasy adventure
for one-to-three payers is that it is worth
every single oblar of the asking pince.

Quest for the Rings shines form has landmark in the history of electronic arcading it's almost as much of an advance over easting videogames as they are an improvement over ong naiPeng. For the first I me, designers have blended elements of the board game and videogame. And since numais perform some of the tasks—like moving the herices around the coordinarpotate comes videogame. Another Devisely console would otherwise have to nandle. Quest for the Rings is a gent step ahead of

other videogames in richness and complexity

To'win, a pair of heroes must find and capture 10 mags, which the dreaded Ringmaster has hidden beneath some of the 23 castes scattered across the landscape. The champions of good must also

> Fight Evil with Quest for the Rings!

fight or at least out-maneuver—the various creatures the Ringmaster has devegated to guard the mystic treasures.

This sketchy description barely hints at the thrills awaiting Odyssey² owners who decide to go adventuring in this dark realm of magic and mayhem **Quest for** the Rings offers so many strategic and tactical choices and involves so many variables that even finicity arcaders will happily play and play again

This game gives new meaning to the word "programmable." Before the action even starts one player assumes the role of Ringmaster and Indes the precious baubles.

The setup procedure is fairly smale Each ring is symbolized by one of the mail round viscoden tokens which in nearly under the larger ones that represent the castles. At the same time, the Ringmasser postions the tokens for the heavy-duty monsters generally under the castles where the rings are buried. The castles where the rings are buried. The castles counters are two soled, with there were indicating which type of liblymont lies beneath the sout some buttlements.









KAROOM



each with special advantages. The warrior wields a magic sword, the wizard casts speils, the phantom sips wrarthlike through wails of solid rock, and the chameleon uses a mystic cloak to become invisible and undetectible to the monsters

The human players may each choose any of the four heroes. All combinations are possible, but garners must take care to select champions that can work together as an efficient team in Quest, players must cooperate to achieve the common goal of collecting the 10 rings. (The third player continues to function as the Ringmaster throughout the game, occasionally using mental powers to "possess" one of the do-gooders and cause the teammates to battle each other If there are on-Iv two arcaders available for a session of Quest, the Ringmaster abandons that role after setting up the game and becomes a hero. Naturally, the other hero has full charge of directing the team around the map I

The legions of evil include quite an awesome assortment of nasties. Orcs and firewraiths are found in every dungeon visited. The former are diminutive, but no-less-cruel ogres, while the latter are the ensiaved souls of past victims that can kill the living with a mere touch. The Ringmaster's magic also makes both types of monsters closely resemble the appearance of the heroes, though the creatures have characteristically shambland walks. The warnor can easily dispatch. such foes with the enchanted blade, and the wizard's spell will keep them at bay,

The so-called "nightmare monsters" are an entirely different matter. The spydroth tyrantulus is a spidery behemoth of utter evil. It loves to eat living flesh, which it believes will extend its own if espan. The spydroth moves somewhat slowly from side to side, but it will pounce on an unwary adventurer from above in a split second. Sword and spell cause it to back off temporarily, but the spydroth cannot be permanently killed

Doornwinged bloodthirsts are bestial vampires who impale victims on their enormous fangs and drink their blood. They back off, flutter and fall when hit by the sword or a spell, but they soon return to the attack unharmed

What would a fantasy adventure be without fire-breathing dragons? Quest

and Mythrog—who will give the heroes a rough time, indeed. Waying the magic sword will make a dragon turn away and the wizard can stop the flame breath with a spell, but nothing deters these super monsters for long. Running and hiding is often the best strategy when a dragon stands between the heroes and their pnze.

The actual battles take place within underground dungeons constructed by the Ringmaster and equally malevolent alies. There are four types, though each individual labyrinth is randomly generated by the Odyssey2 and is totally unique

Dungeons were built by men but subsequently captured by the Ringmaster The Crystal Caverns have invisible walls built by the Wind Wielders at the Ringmaster's command These places are quite dangerous, because the monsters automatically sense the movement of the unseeable barners. The waits in the Shifting Halls move every few seconds, frustrating the heroes' attempts to get their hands on the ring. The Infernal Infernoes are towers of lava kept molten by the Ringmaster's sorcery. The infernoes are particularly tough on the phantom, since these elusive heroes will be incinerated if they try to pass through the redhot walls.

Befitting its overall excellence, Quest for the Rings is also distinguished by magnificent animation. During the first few garnes, more than one arcader will be tempted to surrender to the monsters just to watch them cavort across the

Quest for the Rings is, quite simhas three of them-Scortha, Goldfang Div, the most innovatively designed video-



AUTO RACING



game of all time. Now that Odyssey? designers have started to tap the potential of the system's keyboard, electronic arcaders can only drool with anticipation over the prospect of an entire series of such marvelous cartridges.

(C

issile Command (Atan/CX 2638) represents the most successful conversion of a commercial arcade supergame to the more limited confines of a home programmable system. Devotees of the coin-op classic may miss the blurring speed of that version's track-bali controller, or the incoming fragmentation missiles, but virtually every other element of this Atan masterpiece has made the journey to the VCS format

Gamers still launch anti-missile missies from the command center, positioned in the middle of the six cities under its protection at the base of the playfield. Suddenly, the night sky is streaked with incoming fire, caused by luminous waves of attacking missiles. An alien assault has begun and grows faster and deadlier with each successive wave. Armed with three tenload rounds of ammunition, the human commander uses the joystick controller to target and jaunch his missles in an attempt to establish a protective umbrella of defensive fire. Cities are destroyed when hit by enemy missiles, and at least one must still be standing in order to keep the game alive Sconing 10,000 points causes one previously-annihilated city to rise from its ashes

Strategically, the cross to the immediate left and right of the command center are the most vital. Since piayers must also defend the center, maintaining these two cities becomes absolutely vital. When targeting, the trick is to aim not where the incoming missie is, but where it will be when the anti-missile missile detonates. Arcaders must aim so that the defensive missile will explode along the same trajectory its target is following, only slightly ahead of it. Once a missie detonates, its explosive force mushrooms outward, incinerating any incoming projectiles luckless enough to make contact

Missile Command is a realistic space war game-with a scenario designed to heighten the effect. Unlike say, Space Invaders, in which the alien invasion is highly symbolic, it takes little imagination to picture yourself actually within the imperilled command center frantically launching missiles and grimly awaiting the next assault

Atar: has graced this exciting cartridge with truly striking cover art and some rear innovation in terms of play variation and packaging Rather than offering hundreds of play options. Missile Command game numbers change only the skill level at which play begins. Game 1 starts off with the very slow first wave which has little point value. Subsequent games get going with the second, third-or even thirteenth-wave where the action is much faster and the missiles are worth much more

Game No. 17, however, is something special It's a super simple version for beginners that should be perfect for vounger arcaders, or adults who can't stand making fools of themse ves in front of the kids. The instruction booket not on ly explains the game but even offers play tros and strategy Altogether, it's a great package—with an even greater game inside

.....

aboom (Activision/AG-010) shows Off the approach to game design that has vaulted Activision into the videogame big time almost overnight. In Kaboom, appropriate sound effects are combined with streamlined graphics and fluid animation on a par with the Saturday morning cartoon shows. Even a novice can learn this one in about four seconds, and pre-schoolers and grazied videogame veterans will be equally delighted by it.

A masked malefactor, who luds around an inexhaustible supply of ammunition, races back and forth across the top of the playfield, lighting fuses and tossing bombs. The on-screen character drops the explosives in waves. He throws more bombs in each succeeding wave, and his speed keeps increasing until he's lobbing a fusilade of 13 bombs per second Thankfully. Kaboom provides an automatic pause so that players can catch their breath between rounds.

The player uses a paddle to move a stack of three water buckets, which are piled one above the next in a vertical column noizontally along the bottom of the field. The idea is to prevent any bombs from hitting outside one of the buckets. If one gets through, it detonates every other explosive device in view in a wild chain reaction

The game takes away a bucket after each miss, but sconng 1 000 points restores a lost tub # the arcader has fewer than three currently in play

As a result of this rules quirk, Kaboom designer Larry Kaplan suggests sacrificing a tub just before reaching the 1,000-point milestone. After the explosion, the game resumes at a speed one notch slower, giving the player a bit of a breather And once the score passes 1,000, the machine restores the lost bucket, anyway

Kapian has jokingly described his creabon as "mindless" it isn't, but it is also not a game in which precisely lining up each catch can be a viable strategy

Kaboom is impressionistic. When the speed escalates to 13 bombs per second. going with the flow must be the order of the day Sweep back and forth across the screen, and try to get a sense of the pattern Let your natural arcader's instructs take control of movements

Kaboom is infinitly more enjoyable than the commercial arcade game upon which it is loosely based Avalanche. Kaplan's delightful electronic artwork is the main reason. Fuses sizzie, bombs detonate in a beautiful display of video pyrotechnics, the water in the buckets splasnes when an explosive lands, and the bomber's habitual frown turns into a smile whenever he slips an incendiary device past the defender

Scoring in Kaboom follows the new trend toward lower totals. Those who customanly make the Space Invaders scoreboard roll over a dozen times a game will be hard pressed to top 3,000 in this change-of-pace cartridge for the Atan VCS Setting the difficulty switch to "A" gives those who've mastered the

game a fresh chailenge by halving the

size of the buckets

The electronic arcade world will probably never witness a national Kaboom tournament, but the cartridge does provide a refreshing change from skill- and strategy-intensive games. When you're tired of blasting asteroids or invading aliens, it s ready guite a treat to enter the Kaboom universe for a ittle game of catch



uto Racing (Intellivision/1113) will pleasantly surprise arcaders who don't usually like race games. And those who generally do like electronic motor sports cartridges will undoubtedly greet this new entry like manna from heaven.

Graphics set Auto Racing head and shoulders above every other cartridge in a similar vein. The playfield displays an overhead view of whichever of the five available tracks is in use. Instead of cramming a whole course into the screen, however, Matter designers wisely decided to have the screen scroll so as to show only a small segment of the track at any one time

The racers are rendered in realistic detail, which does much to enhance the visual impact of the game. This, combined with the limited view of the road, produces a more intensively involving rac ing experience

Audio trimmings aren't neglected. either. Gamers drive their cars to the accompaniment of the roar of the engine and the squeal of the brakes

There are five different colored autos that offer a choice of four combinations of top speed, acceleration and cornering ability. The tan and blue cars are exactly alike, so that drivers of equal skill can race identical cars head to head

Although two can play at the same time Auto Racing seven more fun as a solo competition against the clock. In the two-player version, the computer must stop the action whenever one car gets a sizable lead over the other, or the two autos could not be shown on the screen simultaneously. The driver of the racer in front gets one point, and the intellivision automatically re-starts both vehicles at the last previous checkpoint passed. This breaks up the flow of the action somewhat Zipping through five iaps in the solitaire version may prove more satisfying to many arcaders





AIR-SEA BATTLE

Auto Racing is not one of those games in which the driver merely winds up to top speed and takes the entire course life out leaking, accomposited by put highly a button on the side of the hand controller is absolutely necessary. The trick, it of slow down as title as possible in the turns without spinning off the track. Running off the road into the grassy russ on either sed will greatly slow down a racer, and huting any of the trackside obstaces results in a thrusderous crash.

Because of the wide choice of cars and courses, Auto Racing will challenge players of all levels of ability its easy to handicap the more proficent drivers by giving them the weaker cars while a poorer player will get a real lift from using one of the racers with good comering ability.



The insidious thing about **UFO** (Odyssey-179430) is that a new round starts within seconds after the previous one ends. Your Federation star cruser has no sooner failen prey to a marauding UFO than a new Federation saucer popsion to the screen.

When a game is as delightfuly addictive as **UFO**, such an auto-start feature may pose a health hazard to more compulsive arcaders

As commander of an Earth Federation star cruiser patrolling a perious sector of deep space, the gamer must battle three distinct types of UPO's Random ones drift airrilessly through space, numerkillers home in on the Federation ship and enemy light-speed starships fire computer quied missiles.

Which isn't to say that the star cruiser s hepless. The Federation ship is surrounded by a force field—indicated by a ring of little blue dots encircing the saucer—that disintegrates all forms of UFO's on contact.

The saucer ass has a powerful offernse weapon in the form of a laser cannon. When the commander presses the actors buston the asser fires in the direction indicated by the blue dot in the force field ring. Arming can be a little thosey at first. The dot rotaters clorkwise around the ship during movement stopping only when the cannon's pointed exactly in the direction of flight.

The shield itself makes a pretty potent weapon as well. Any UFO explodes on contact with the shield, making ramming a useful and effective tactic.

There is a catch, however Whenever

the star cruiser employs its force field of hits a UFO with the cannon, the system shuts down for recharging

UFO is a fine example of how programmable videogame cartndges can borrow extra touches from compo electronic games. UFO features for the artime in any one videogame, an onscreen read-out of the high game in the pay session underway. There's even a sport to put the top scorer's name, expotiped in or the Odyssey's keyboard.

"If you ake explosions, you'll love UFO. There are at least three different ones, plus an occasional strange hybrid the machine concocts to take care of extraordinary occurrences (like two hunter kilers, a light speed star ship and the Federation saucer colliding at the same time!

Another fine use of graphics involves the horning JEO's. The majority of hunter-killers are created right on the playfield as a result of collisions between two random UEO's or the interaction of a random UEO and one of the missles fired by the jobit-speed star-ship.

Since random UEO's are worth only one point, hunter-kiners count for three and the right-speed 'banana boats' are worth 10, a lot of the strategy concerns charing the more valuable targets while dodging the rest to avoid unnecssary recharging periods. The 10 pointers are particularly important.

The aght-speed starsmips are lethawhen approached from above or below, but they do have an achies netre invalent sunf free horozonts of the freetration ship is safe if it in uNes at the ight-speed craft from due East or Wes relative to its position on the playfield. The Opport LPG position great ed danger to me Federation saucer, but players with omerely doager herm will find irringhly hard tomount up many points.

UFO is one of the best games in the entire Odyssey* library and seems destined to become something of a videogame classic. This is a "must buy" for every Odyssey+ owner.

In enton a videogame version of Tennis (Activision/AG 007) and most games will think of a Pong-like program—two paddles, a square ball, and the traditional vine down the center of the screen. That's what makes Alan Miker's game esign for Activision's version of video-W moledon a leading candidate for "game most likely to blow

your mind ""

Miler who brought the trapezo dal

3 D" court to programmable videogames, elaborates upon his initial masterstroke with an even more intriguing idea a shadow moves along the ground as the ball files through the air

The computer takes shooly by the part of the recognition of the part of the recognition of the part of the recognition of the part of the

One of the best designed, real stically styled videogames Tennis unfortunate yhas been overshadowed by the garewith which it was co-released. Laser Blast in case you missed it, it is well worth a look. Highly recommended



A in-Sea Battle (NariCX-2602), one for the VCS, became an instant classic when it was released and as bit aremarkably fire videogame today. Its introduction healthed the dawn of the age of true programability, because it was the first tide that departed from the ball-and-paddle contests that ruled the roots back in 1978.

Air-Sea Battle's numerous pay variaguns, aunor torpedoes, pilot, ets and steer battles'nips—air within a basic 'snooting galey' format. The program employs a norizontally striped payfred evecuted in persang shades of blue across whon move targetsike so many ducks in a row.

Number 11 is probably the best of the vanations. Two submarine captains compete agains each other and the clock to see who can wreak the most havoc in the shipping lanes by peppening passing ships with guided to pro

It's the ability to steer the missiles that make this such an enjoyable contest. Shots must be considered as part of a series and orchestrated as a smooth flowing continuous barrage Blowing a ship out of the water is worth little in and of isself unless the commander is left in good postion to shoot at the next target Alf-Sea Bartle may be one of the

Electronic Games 53



hasn't dated It has, rather aged gracefully and is still one of Atan's outstanding software selections



coin-op arcade machines Breakout is probably the most successful game developed from the balland paddle formula introduced by Pong in the basic game, players manipulate a honzontally movable paddie across the bottom of the playfield in an attempt to nit the bail against the seven rows of colored backs near the top of the screen

The ball removes a brick each time it smashes into one and then bounces back toward the paddle. Simple enough. mechanics, to be sure, but not necessarly an easy feat to accomplish over and over again. Five balls constitute a complete game

The prime strategy is to concentrate fire by causing the ball to ricochet off the appropriate segment of the paddle to produce the desired angle of flight. Keep

preferably at the extreme left or nont of the playfield until the ball has cleared a path to the empty space behind the wall The ball will bounce around back there instead of returning to the lower portion of the field, scoring points in bunches instead of one at a time

The same cartridge contains Breakthru a souped-up version of the classic game. This time, the ball clears a path through the entire wall, bounces off the rear of the playfield and once again piows through the bricks on the return too

Breakthu though a little less challenging than Breakout, can easily become an addiction. It's great for head-tohead competition, since a best three-of out-of-five series takes less than a halfhour, and it's also a lot of fun soio. Unfor tunately, many gamers find their skill improves so much as a result of constant play that they are able to clear both walls with just one ball if that happens to you. returning to Breakout may provide fast relief-and a new lease on life for the cartridae





Boxing (ActiVision/AG 002) is the first cartridge devoted to the fistic scene—and it's a real knockout. Video managers maneuver their boxers, colored black and white for easy identification, in the clinches, around a ring viewed from overhead

To keep the game from wallowing in complexity, the computer assumes the chore of punch selection. The gamer decides when to throw leather by pressing the action button, but the system then selects the appropriate blow in aght of the two boxers' relative positions within the ring

Rounds last two minutes instead of the regulation three, but this is probably due to the kindness of some generous soul at ActiV.sion Only Rocky could sur vive 15 of these grueung rounds without



BOXING

needing a thumb transplant. The onscreen pugilists could probably batter away at each other forever but the human managers will need a breather between rounds. A little experimentation indicates that three rounds for a preliminary and five for a main event make good matches

Stick and run is the best tactic in Boxing. Keep throwing the jab, and try to dance away from your opponent's long-range bombs Flat-footed stuggers haven't got a prayer in this one

Once the other boxer is immobilized against the ropes or in a corner, it's time to have your man bore in for the coup de grace. Keep the action button pressed to pound out devastating combinations Normally, the computer forces a fighter to back up a little and get out of harm's way when he takes a soud punch, but this is impossible if the pugilist has nowhere to escape. Show no mercy

Knockouts occur when one boxer scores 100 points in a single round. If that nappens, look carefully-your opponent may have left the room to get a soft drink or something. On the other hand, scoring less than 50 points suggests that the manager should adopt a more aggressive strategy in the future



A lien Invaders—Plusi (Odyssey/ IB 3634-1) makes excellent use of the basic Space Invaders concept to produce a game that's different enough to be great fun

The gamer employs the joystick to move a horizontally mobile laser cannon -and its robot gunner-back and forth across the bottom of the playfield Poised overhead is a line of eight evil robots, each operating a gun and protected by an impenetrable shield. The defender has some protection, too, in the form of three huge blocks that stop laser fire in either direction

The aliens also have a lethal leader in the form of the Mercuess Monstroth It starts the came as a sort of unearthing cheerleader, scuttling back and forth behind the android legions. All too soon. however it abandons this passive role and swoops low over the lone defender to drop loads of deadly bornbs

The worst thing about the Monstroth is that it is as unwilable as it is merciless. If there's even one evil robot left on the screen, the hornd creature regenerates within seconds after taking a seemingly deadly biast from the laser cannon

When the cannon is hit by enemy fire. it leaves the robot operator completely unprotected against kling laser blasts from above. Moving the defender direct ly beneath one of the big square shelds converts tinto a new cannon. After the invaders destroy the fourth cannon, the little robot might as weil surrender. because there is no way of returning fire at this point in the game

The arcader wins a round in the ongoing war against the aliens by clearing the entire playfield of enemy robots. The computer scores a point every time the defender fails to accomplish this goa-When one side accumulates 10 victories, the war is over and trumpets salute the victor

Some gamers may look at the triin line of eacht attackers and conclude that Allen Invaders-Plust is a pushover Not at all it's actually a good dear more difficult to play than Space Invaders itself

Winning is a lot easier before the Monstroth starts mixing into the affair so players must work rapidly. Put the enemy's asers out of commission first to create "safe zones" for the defender, and then go to work on dispatching the invading robots. Since the Monstroth has no direct effect on scoring, ignore it until it actually begins its low-altitude bombing runs. When the creature does activate however, it must be dealt with

regulariy and repeatedly, or it will get the defender sooner or later

Not just a weak-kneed Space Invaders rp-off, Allen Invaders-Plusi is an exciting and entertaining videogame in its own right.

CHEMINI)

very arcader can be a Luke Sky-walker with Space Battle (intellivision/2612), one of the few videogames that combines strategic and tactical elements in the same cartridge. The way in which the three defending fighter squadrons, each with three space craft, are deployed to protect the mothership is as important to ultimate victory as a steady hand with the laser during the ship-to-ship combat portion

The strategic playfield shows the mothership in the center of the screen, threatened by five enemy fleets with up to 15 ships in each. Pressing the clearly marked alien key on the controller allows the arcader to select a target. The player can then dispatch the red, white or blue squadron by pushing the appropriate section of the overlay. When a defending group reaches the attacking fleet's position both symbols will begin flashing on the screen

This is the cue to push the "go to battle' button that switches the action to the tactical display. The arcader is now in the cockpit of one of his fighters. The beautifuliv drawn alien ships not only dodge your laser fire, they also blast back at you with lasers of their own

The screen automatically returns to the strategic playfield when an entire alien fiobilia is varioushed or when the gamer pushes the radar key on the controller overlay. Another button is used to return a squadron to the mothership for later reassignment

In routing the defending squadrons it is important to avoid two simultaneous battles whenever possible. The computer wiii automatically conduct any engagement in which the player doesn't take active control of the fighters, but the machine essentially exchanges one fighter for three attackers. Since the player needs to destroy at least five foes for every defending ship lost, it's clear that the computer should be permitted to lead a squadron into battle only in the most dire emergency or as a delaying tactic

The game can be played at any of four speeds. The second-slowest is a good one at which to learn Space Battle and only the hottest space warriors will stand a chance against the invaders at the fastest play speeds

Most videogamers will find Space Battle a refreshing change from the more straightforward type of outer space shoot-out. The need to orchestrate the sequence of battles adds a thrilling dimension to what would be an exciting game in any case



Ideo Whizball (Zircon-Channel F/CO201 was one of the last-and best-cartridges Fairch.ld produced before abandoning its programmable videogame system. Now that Zircon is marketing the Channel F. Video Whizball may finally get the acclaim it richly deserves

The concept is astonishingly unique, the audio and visual effects are adequate, and play value is excellent

Each gamer controls a vertically movable paddle in front of a goal at either side of the playfield. The paddies aren't defens ve in nature, as veteran arcaders might expect. Instead, they shoot "whizballs" at a large free-floating block. Gamers fire at the floater from three angles—upward, downward and horizontally-in an attempt to shove it through the opponent's goa. The action is somewhat reminiscent of the old commercial arcade game in which players direct air or water guns at ping pong

The fun really begins when more than one floater appears on the screen at a time in the ultimate version, as many as four of these big, dumb blocks are bouncing around the field, creating all kinds of havor

When a player's paddle is hit by either a floater or a rival's whizbail, it disappears from the screen for a short interval as a penalty. Of course, that leaves the goal open to attack

Piavers can't fre again until the previous whizball strikes something. When the floater is very close to a paddle. however, the defender can loose a series of whizballs with machine gun-like

rapidity This is really a good game, especially in light of the imited graphics capability of the Channe, F system. There is no similar limit on the inventiveness of the designer who created Video Whizball and Zrcon should be thanked for resurrecting this excellent cartridge

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inside gaming

contrued from page 12

The Chicken was an instant favorite with the otherwise bordel Padres fars who has nationed himself quite a career as the miscoin of the perennally flow Padres National League basebas team the assort of the perennally flow Padres National League basebas team the has since gone on to national farme, appearing at all sorts of sporting events. On commercials and even in new work TV specials in short, ne's become a house noid face, et beak

So it sounded like a natural for Activision and the Chicken to get together to promote this fantastic new game

Alas, the deal with the Chicken fell through But the idea of using on-screen choicens proved irresistible. It's the perfect audio visual punichline to one of the world's oldest jokes. "Why did the chicken cross the road?"

Activision president Jim Levy fitted the final piece in the Freeway jigsaw puzzie Crane had wanted to offer several different roads to challenge acaders, and it was Levy who suggested that Activision check out traffic patterns on major highways across the nation

"We had to make some adjustments," Levy concedes, "since they weren't all 10-tane nighways. But this way, payers all over the country have the opportunity to get their chicken across a lamiliar roadway."

This touch of local color works perfective of Sames can guide their videor en so over such belowed stretches of base-tree as to we such belowed stretches of base-tree as to we such as takes from the first a Montae Freeway in coskingers and New York's rather such sung Island Expressivary Each highways to septemented by a traffic flow spocally found on at a specific time of three day or in glit. Morning hours feature more fitted you truck traffic, for example, white such hours resumed in the times with we homes seemands. If all the lines with we have

While most home video games are either re-workings of classe; themes or translations of com-operated winners, Freeway stands out as wonderfully, joyously orgna!. Nothing else is quite like it. Which stands to reason, because its inventor Dave Craner is also one of the true originals in the electronic game design field.

Oh, and in case you were wondering the chicken in the joke crossed the road in hopes of earning enough points to receive Activision's award for **Freeway** excellence—The Pulletser Prize #

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Software for the Apple II was tested at The Computer Center 480 use rigton Avenue New York NY 10 6.7 Computer Center which also has a second location at 31 E 31st Street offers a huge assortment of games for all popular computers in its stores and by mail order.

Software for the Aran computer was tested on an Atan 800 49K machine or on an Atan 400 upgraded to 32 with an Axion Ramcram

Star Raiders (Atan-Vitan 400 & 8.00), as the game that, in the opinion of many, sels-aiot of 400 computer systems for the Sunnyaile Ca. inendiacturer Not that other excellent softwarer doesn't exit, but it is Star Raiders which best demonstrates the outstanding videogame and computer capabities of the 6502 based maximum Star Raiders as brilliantly conceived.

state-of-the-art program that has established the standards prospective software marketerd will be trying to surpass over the next year or so it is similar to the treasity science foton programs that are a stape of computer gaming, but it is far superior to alipast efforts in this field.

The Star Raiders soperence beg is with the selection of one of the four misoris—Novice, Pilot, Warnor or Commender - eech a little more difficult than the preceding one in the Novice misori, the Zybros don't file beck, so this sia good level at which to get the intrade pay mechan is down part. Space kinghts will want to move up to the Pilot misori as soon as possible to enjoy the full flavor of the confest.

After the arcader engages the shields

[15] on the keyboard, and computer in CT, its one to bonch 16 Tob ing the galactic chart up on the viewing screen This grid shows the locations of frendly starbases and the various Zylon attack squadrions. The same fleed also furnishes squadrions. The same fleed also furnishes helpful data concerning the energy cost of hyber space trave. Jamage control and the current star date. To reavel between sectors, the pilot

uses the joystick to position the cursor over the desired destination on the galactic chart. Pushing "F" to switch to a



front wew of normal space the arcader then powers up the hyper warp engines Star Raiders' single most breathaking visual is the jaunt through nulspace. It's a science fiction vision straight from "Star Wars"! When the ship armyes at a Zvion

where the sind wines as a system occupied sector, in escreen flashies red, a cason sounds and the machine prior during And that's where Star Raiders diverges from tun-of-the-mit strategic should be stated combat priase in where Zyon fighters dive toward the earth ship's front screen disappear momentarily and then real-pear on the rear screen zooming into the existness of space. Allow resident or sacross or sacross.

the single defender for the kill

Zylon craft come in three vaneties fighters, cruisers and basestars. The latter aren't as mobile as the other two types, but they have sheeds capable of turning back all but dose-range attacks. And the basestars are deadly at that distance

If the arcader's ship sustains damage or is just low on energy, docking at a finendly starbase www.setthings.nght. The docking sequence is a particularly nice bit of animation in which the starbase sends out a small shuttle which floats over to the ship and readies it for re-aunich.

Even this description can't catalogue at the fine deals included in this out-standing program. There is variable impuse engine power for movement within a space sector conbeam weapony, a sub-space rado to report on batters any place in other parts of the galaxy, a sector-scan display and much, much more.

in fact, Star Raiders offers so many cardwase that up to three gamers can cooperate on a single absenture. Star Techt Tashon The crevit's videous facet fact and and the engage as needed. A computer-onemate poyer can take charge of the console governing the ships velocity and jump jack and forth among the various of spilays. The third member of this hypothecia's Star Raiders team gets to at back in the command dhair offering strategy hirts and coordinating timps. Of course, it's perfectly possible to play solo too.

The best strategy for ending the Zylon threat is to attempt to anticipate the enemy's computer-directed moves. Use the galactic chart for this, as a quick



analysis will usually suggest which starbase is under the most immediate threat.

While energy is there to use, it should also be conserved to a certain extent. Not only is energy consumption one of the factors the computer considers when amving at your final rating, but efficiency in this regard will reduce the need for frequent "pit stops" at friendly starbases. On the other hand, all but the slightest damage should be repaired as soon as practical. A ship without shields isn't going to be much more than a juicy target for a pack of Zylon tie-fighters And don't forget the sub-space radio. without which it is possible to blunder around in one corner of the galaxy while the invaders wipe out a starbase undetected in another sector

If you haven't enjoyed a **Star Raiders** mission yet, do so at once Then you'll know how pulse-pounding a computer game can be. (Bill Kunkel & Frank Laney)

Bowling (PDI/Atan 400 & 800/16K) is a very interesting cassette from a company that is better known for educational software. Obviously, someone at the company plays hookey from the schoolwork, because this is certainly an excellent sports simulation.

Players enter their names on the left tronic scoresher in the order in which they desire to play. This done, the computer switches to an overhead view of an alley with a bowling ball moving from side to side at the fool line. There are three play varients, each offering a different type of action in the simplest. In ball travels ma straight line from the point.



at which the gamer presses the action button. The second option allows pinblasters to hook the ball. The third one retains the hook, but this time the ball is invisible until it is actually heading down the afey.

Graduates of the Atan VCS Bowling cartridge should be warned that this version of Bowling features a realistic hook, instead of turning the ball into a 16-lb, guided missle. It's just a gentle hudge,



pretty much as in real life

After each bowler completes a frame, the computer switches to the scoresheet for a recap. This may well be **Bowling!** best feature. Many other programs offer only cummulative scoring or, at most, a notation of shikes and spares. This one furnished a complete scoringline, just the way you'd fill it in in voiuself.

The color graphics are simple, yet quite effective in conveying the flavor of Ten-pins on the home screen. Come to think of it, perhaps PDI intends **Bowling** as a reward for electronic gamers who've already finished their computerized lesson. (Bil Kunkel)

House of Usher, Beneath the Pyramid and Sands of Mars (Gryster) ware/kan 400 & 800. Apple II. Pet. TRS-80) are the first too of releases from one of the most controversal new software publishers. The company's add promised lavish 3-D graphics and an incredible gaming experience. Although the announced titles carried higher pricetags than most other computer.

games, anticipation ran high. Clearly, more arcaders were turned on by the concepts than were turned off by the cost.

Fans deluged computer stores with orders, but Crystalware seemed somewhat unprepared for its success. When slowly filled orders finally reached games, they were horffied to find that serious programming errors marred the premium-pinced games.

"We sold ZO copies of Sands of Mars," one retailer confided to Electronic Games, "and 19 of them came back. No one wants to pay \$40 for a game and then have to correct the programmer's mistakes."

In fairness, what might first have looked like a poff may have resulted from unintentional foul-ups. Owner/designer John Bell is now making a sincere effort to untangle the mess Copies of the game in the stores today are reportedly error-free. Undoubtedly, games who bought defective ones will find Crystalware anxious to rectify any problems.

Sands of Mars begins in a spacepor where a captain (the player) has just secured financing to buy supples and hive a crew for a tip to the Red Panet. The crew travels to the faunchpad in a truck, gets out and walks toward the waiting rocket. The playfield then shifts to a representation of the ship's bidge, where a wewscreen provides instructions for takeoff.

By this point, the typical gamer is drooling over the marvelous graphics. After the blast-off, the ship navigates through a beautifully rendered version of outer space. But when it finally reaches its destination, the game sinks beneath the Maman sands, carrying all its bright promise with it.

The Martian phase of the game is provided on a separate disk, and the arcader will realize instantly just **how** separate once the program loads. The visuals in this section suffer badly in compansion to the treats contained in the first half of

Sands of Mars. Once on Mars, the player solves the mystery and heads home bitterly disappointed

In The House of Usher, a graphically enhanced adventue, the electronic explorer has the run of a mysterious markon populated by over 100 different monsters. The mystery to be solved during the course of a randhing tour of a randhing tour different folder that comes with the garrier Uniforunderly—and utelly indexplicably—this crucial information is protected in Feron.

An exotic Arabian bazaar is the starting point for **Beneath the Pyramid**. There the intrepid arcader may buy the supplies needed for an expedition to the

nearby pyramid

Once within the stone walls of the mighty tomb, the adventurer is free to wander through four levels, each composed of a different maze, in search of a golden cat idol

The latter two games neike betterhan-usual use of Adari strong graphics and contain no glamg programming flascoes in their current editions. While House of Usher and Beneath the Pyramid are altien once openime than some software, they are also of higher quality. And as areade adults will want to keep an eye pelied for future Crystalware releases, because this company may well give us some sensationa, gamesonce tigestis act together (Frank Tetro)

Nominoes Jigsaw (DynacomplAppleil Plus, Atan 400 & 800 and The 500) a brain-teaser supreme in the form of an electronic jigsaw puzzle. Would-be solvers attempt to fit 60 oddly shaped pieces, pictured on screen at all times, into a nine by nine grid.

Nominoes. Ilgsaw nastrice levels of play, with three-opports available at each level. The computer generates a new puzzle every time. making it very unkeely that a duplication will occur. Once the potture is properly assembled, the program rates the solver's ability based on three factors the amount of elapsed time, the number of guesses and the difficulty of the puzzle completed.

The audio and visual effects are quite satisfactory, and designer Jerry White has used a BASIC/machine language mix to shorten response time. Random puzzle generation is certainly a big plus.

as sthe posting of the currenthigh score. The concept of **Nominoes Jigsaw** is brilliant. This video jigsaw game is

so clever and completely original that only the most hard-hearted puzzle-hater could fall to be charmed. (Frank Tetro)

Space Chase (Swifty Software/Atan 400 & 800/16K) combines a highly original design with first rate play values to forge a certifiable computer arcade classic Gamers plot an on screen space ship

around a star- and planet-studded galaxy, which is patrolled by the fightee aber and the top to the easter of bases serve as faunching pads for the enemy. The pager must conquer all the planets by passing the space ship over them, while destroying or avoiding the teffighers.

The space ship has shields and can set mines, but scroling off the screen is probably the best defense. The partrol ships can't pass beyond the boundaries of the galaxy while the gamer's craft can exit the screen on one edge and return via the opposite one at wii.

Space Chase becomes progressively more difficult as the action continues Only one asterioid base is active in the first round, two in the second and innee in each one thereafter. A base will automatically send out a new patrol ship as soon as the arcader destroys the previous one. When all three bases are pumping out those befighters, Space Chase dets pretty wild.

Designer Fernando Herrera has given this game better sound and graphics

than all but a handfur of computer software products. For a BASIC language program, **Space Chase** has surprisingly quick joystick response. This goes far to make a dektently game like this an enjoyable arcading experience. (BJI Kunke)

War at Sea (Custom Electronics/Atan 40. 8:00/16K cassette or 24K disk) brings the boardgame classic Battleship to electronic arcading. V deo admirals lob shells at a 10 x 10 grid—and then bite theirnais waiting for the computer to fire back.

After the numan player and the computer have keyed in the initial positions of their fleets, play procedes in the familiar, alternating turns manner

Every vesser can with stand two to five hits. The exact number, as well as the current damage status of every snip, is in dicated by a summary printed to the right of the actual playfield.

Althought the pictures are nothing social the designer has gone to unusual engits to provide the game with appropriate audio accompaniment. This starts with an opening thorus of "Anchors Aweigh" to put the arcader in the proper modal and continues through the whole game. Torpedoes, for instance, are launched with a satisfying

"whoosh!", and the metal fish can even be heard cleaving through the water toward their targets.

Those who like the original boardgame—a group that certainly includes many young gamers—are bound to enjoy War at Sea. (Bil Kunkel)

Allen Rain (Broderbund/Apple I/48K) is a dynamic home arcade version. of the coin-op hit, Galaxian, Players fire at the bat like alien invaders with a horizontally mobile spaceship situated on the lower edge of the playfield

Unike organai Space Invaders, the creatures here don't merely jiggle from side to side waiting for a sharpshooter to mow them down. The aliens will suddenly sprout huge wings, break formation and execute a dive-bombing run against the named defender

In terms of its sound and graphics, this program is just about at the commercial arcade level It falls short only in its execution speed, which is slightly sower than Galaxian fans really like Nonetheless. Alien Rain is currently the best available home edition of this highly popular coinop classic (Bill Kunkell

Asterold Fleid (Cavaner Software/Apple il/48K) attempts to bring the excitement of Asterolds to Apple owners. This is not an easy goal to accomplish, much harder than translating Galaxian into microcomputer form That's because Asterolds, in its coin-op incamation, uses the quadrascan montor to perform some of its most ingenious electronic miracles. A computer game, however, must operate within the limits of ordinary rasterscan monitors

Which makes Asteroid Field an even greater triumph for Cavalier, It can't be exactly like the com-op version, but it's close enough to satisfy even the most discriminating arcader

Play procedure should be familiar to just about everyone who likes electronic amusements. The gamer pilots a ship threading its way through a region of outer space overrun with debris. The ship can be rotated either clockwise or counter-clockwise-or the pilot can apply thrust to move it forward. The idea is to biast any asteroids that get in the way, making low-scoring large rocks into the high point-value tiny ones in the process (Bili Kunkell

Mystery Fun House/Adventure #7 (Adventure International/Atan 400 &

800, Apple il, Sorceror and TRS-801 is. obviously part of the on-going series of text adventures by Scott Adams which has already reached its 10th installment. In a sense, these programs, which have no computer components, are like radio in comparison to videogame's TV Still. they can give gamers who like solving tricky puzzles many hours of fun

Actions are initiated using simple commands. Usually these short messages are typed into the computer in the form: verb noun. For instance, the monitor prints out the fact that the player is standing in a room containing only a desk The order 'Look desk" would produce a sentence of reply from the machine indicating that there is a note on the desk Following this up with Read note" results in the computer spitting out the

message contained in the note Mystery Funhouse requires the arcader to retneve a set of hidden plans from their-resting place somewhere in

the feat may not be quite as easy as it sounds

The game display is divided into two fields. The upper one summanzes present location, possible directions of future travel and objects visible at the time. The other reproduces the gamer's commands and, thanks to the game's machine language programming, prints out answers fairly quickly.

The instructions provide a list of the verbs that will elicit a response from the computer during Mystery Fun House. This is, in a sense, a hint to the players about what will work-and what won't (Scott Adams has recently made available hints that provide more concrete heip if you get stuck I

Mystery Fun House is not recommended for beginners. The puzzle is a tough enough put to crack without the additional handicap of not knowing the basic procedures of text adventuring. For those who know their way around such fantasy realms, however, Mystery Fun House should provide a rousing good



++++++++++++++++++++++++++



Empire of the Over-Mind (Avabor-Hil/Appiel II Ass 800, Pet and TG-50) refuse the notion that only dexemy games can be external to settlarily true that graphics and sound enhance play to a great extern. but this super-duper text, adventure packs a his measure of this sathough it has neither in fact, more than a super-business of the country or their elevation sets on they own the true to the country of the volume on their elevation sets on they own the super-business of the country and books (Of course, putting the soundrack from 'Lord of the flags' or "Empre-Stikes Back" on the stereot to set

The object of **Empire** is to seek out and destroy the sinister Over-Mind. This mysterrous intelligence has bribed, conned and muscled its way to control of the kingdom—and the adventurer is mankind's last hope.

Saving humanity is accomplished, as in most such games, by journeying from place to place within a intricately detailed reaim, solving puzzles, finding treasure

and enisting allies. This program puts would-be heroes in some awfully tight spots at times, and it is certain to take many run-throughs before the electronic champion is ready to fulfil his mission.

The instruction booklet for **Empire of** the **Over-Milds** is family, nothing to write home about. This is too often the care with computer adventures. Frequently it's that a software company has acquired much more soil at creating a plyable program than in writing rules. Considering the expertise availables of AH—the number-one publisher of adult strategy games—if ought to be possible to provide games with a kiffe but more detail about the fantary world they're about to enter. It must be admitted, though, that the rules are at least compiler. If not exhaustive

Empire of the Over-Mind is a splendid evening's entertainment for the solo player—or for a group of back-seat adventurers, if you've got a crowd in the invingroom (Frank Laney) Dino Wars (Radio Shack/TRS-80 Color Computer/4K) wiii. amuse those who can get past the fact that it lacks the sontillating graphics used in software designed for some of the other home computers. Dino Wars pits two arcaders against each other in an aggressive, lawof-the-jungle fight for survival

Dino Wars is a video game exercise in more exercise in the properties of the position to bit either other one on the neck from behind. In fact, just roar at the rival saurian from the proper position, and it yawps and falls right over with a great thump—and the failen dinosaur's numan master loses 20 points.

The dnosaus, colored red and blue, are snown on the screen in sx base positions direct right or left. Forward right or left and back right or left. Each stance is shown in varying degrees of resolution, depending on how close to the foreground the creature is. Considering that all curved lines are definitely shart steppy, the designer has endowed the dnosaus with an invariant amount of personality.

By using the Joystos:—which don't nave the customary automatic centering feature—the dinosaurs can be moved about the piayfield in three dimensions. The combatants who begin the contest with 100 points, must be near each other on the screen and roughly the same size to and telling blows.

Cacti located toward the background of the playfield present a hazard to the dinosaurs. The brutes tend to fall down when they blunder into one, causing a five-point deduction. What's more, a downed dinosaur is vulnerable to its foe's bite and roar.

Dinosaurs can move off screen at any time. The screen slowly pans after one-or both -of them, while a clipclop sound represents the out-of-sight activity. If a saunan continues to travel in the same direction while outside the playfield, it eventually re-enters the screen from the opposite edge. The game ends when a dinosuar has lost enough fights or bumped into enough pesky cacti to use up its stock of points The action immediately stops, and the defeated dinousar lumbers into the distance, squawking sorrowfully. The title page then returns. It presents a listing of how many games each dinosaur has won during the entire play session then in progress. —Ross Chamberlain ★

continued on page 65



enturi has struck gold again with its latest compoperated science fiction game Pletades. The company that has given arcaders such delightful machines as Route 16, Eagle and Phoenix has more that kept up to its own high standards with this latest release.

Pfefades

tour de force arinorg videogames it combines spectacular sound and graphics with a system of game action that is simple enough for even a novice player to graspleasy. Those who find the controls of some of the newest compone machines a bit dauluning with probably feel a little more weccome when they step up to by this one.

Pielades, named for the constellation in the northern sky, sends games on a multiphase mission. They must battle a series of aven invaders, maneuver through an outer space minefield and return to earth with a whole skin.

Pielades is what many have started calling a "greatest his." videogame, smaler in overall style to Midway's aready popular Gorf. Each phase of Pielades challenges gamers with a new and different playled, decked out with graphics those with good memones will recall from Fands and Becentral.

Eagle and Phoenix
The longer the arcader keeps playing,
the more wondrous sights
flash across the

fiash across the monitor screen Great, bird-like alens burst into flame and crash to the ground in a wid pyrotechnique dispay when hit by laser fire A mighty wall of flame supports the ship and

the nasties pass

through this barner of fire to attack. Finally, the human spacefarer must navigate the minefield to dock.

Once **Plelades** proceeds this far, an SDS message flashes on the screen, ordering the player's ship back to earth. The entre adventure begins again, but this time at a much higher evel of slaw.

Each of the game's phases achieves its own unique identity. This makes a refreshing change from other games that repeat on a very short cycle and can become hypnotically repetitive when someone is really tallying up the points.

And this is more likely to happen than on onne of the other recent commercial arcade games. **Pletades** is neither simple nor childish, but it is just a shade easier to gain some mastery over it. That means no wasting a handful of change while learning the rudiments of stratedy.

Centur hasn't broken any major new ground with Pieiades, but there's no denying the fact that this relatively new outfit has once more produced a highly payable contop within

Space Odyssey (Sega/Gremin)

Sega/Gremlin is responsible for producing some of the most graphically innovative coin op electronic games around lit continues the quest for visually exciting programs with good play value with its latest entry. Space Odyssey

The colors are soft and pale, utterly unique in the reaim of videogame visuals. The color system in Space Odyssey is capable of generating 256 hues, every one of which appears to flash across the screen at some point during the course of this multi-part science fiction adventure

Like the popular Defender, Space Odyssey lets arcaders pilot a rocketcontrolling the speed, direction and altitude—over an exotic, scroiling unearthly landscape. Among the menaces threatening the gamer are UFO bases which launch small diamond-shaped craft and a humungous mothership that is capable of absorbing several direct hits without sustaining damage.

Once the **Defender**-like horizontal phase is successfully completed, several vertically-oriented rounds of action commence. The first has the arcader viewing an alien city from above, while the following two sequences take place in outer space. Adventurers must face this final pair of challenges with an empty gun, players must guide unarmed ships past black holes and careening meteors

Complete all these phases and the game begins anew—at a higher level of difficulty, naturally

Venture (Exidy)

Get ready for the next Big Thing in

adventures! As science fictional videogames begin to super-saturate the coinop parlors, designers have been search ing for new directions in which to go.

Fantasy adventures, role-playing games, dragon-slaying and heroic quests have been hot media topics for over a year now Just as "Star Wars" launched the science fiction boom a few years back, films like 'Dragonslayer' "Knightriders", "Excalibur" and even "Raiders of the Lost Ark" are piguing nationwide interest in "adventure" simulations

Exidy's latest entry. Venture, is the first coin-op to reflect this emerging trend It combines high-resolution graphics, innovative design and first-rate sound effects in an attempt to recreate the "wnat's n-the-next room?" appeal of computer text adventures in a nighty visual context

The game scenario concerns a mammoth four-leve, haunted dungeon Each ever contains many halfs, rooms and chambers Gamers will discover hidden treasures, damsels in distress and monsters of every description. There are puzzles to solve, goblins to slay and a fair mayden to impress

It remains to be seen whether adventure com-ops will ever rival science fiction arcade machines in popularity. But if more games of Venture's high quality are produced, this new type of commerciai arcade game is certain to be success-

Warlords (Atari)

If you've only played the nome version of Warlord, this coin-op newcomer should prove to be a pleasant surprise It is perhaps the most visually sen-

sational videogame ever designed Through the creative use of colored overlays, Atan has made Warlord a feast for the eyes. A castle rests in each comer of the playfield with the region's monarch—seen from overhead—in side Players quard their wariords with a combination shield/catabault that moves freely over the exposed half of the outer wail

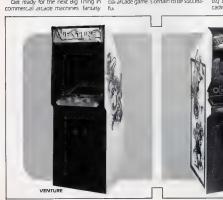
Suddenly, a monstrous dragon appears on the screen, breathes a gigantic firebail and spits it into play! The firebail roars across the field, flaming tail in its wake, destroying bricks in any castle wall it touches. Players must either deflect the rednot missiles or catch them-and then shoot them into play again, this time toward a rivai citadel

When Warlord acts doing full tilt, there can be up to four fireballs bounding around the screen. Action at this point can only be described as "Hectic"

Here's one game that sounds as exciting as it looks. Fireballs hiss, reflecting shields emit a ping and dragons roar in a mediey of noise

Again, you've got to see Warford to believe it. The VCS version is a delightful variation of Breakout, but its coin-op big brother is sure to restore your ar cading sense of wonder

WARLORDS



computer playland

continued from page 62

Lords of Karma (Avaion-Hill/Apple II, Atan 800, Pet and TRS-80) is something a little bit different in the way of text adventures. Instead of scooping up treasure, players attempt to qualify for ascension to heaven by displaying their charity and bravery.

Oh, there are plenty of creatures and evil-doers—to smite, but there are also browne points to be gained for giving alms to the poor and evidencing piety

The protagonst begins the adventure in the central square of Golconda, a waled city surrounded by forest and situated near the Ocean of Storms. The nero is then free to wander through the sprawing and diverse realm

Payers enter their commands using short, two-word phrases These usually short, two-word phrases These usually crossts of a veth followed by the noun which is to receive the action The instruction folder doesn't disclose what most of these commands are, so adventivers should expect to spend the first couple of pay sessions trying to figure out what will work and what will draw only a puzzled response from the computer.

One helpful feature is that travel in any direction—North. South, East, West, Up and Down—can be accomplished by typing in only the first letter of the operative word. That is, "Ni" works just as well as "Go North".

This is especially nice, since the computer responds to the command "Look" by printing out what lies in all six direc-

A typical segment of piay might go something like this (player's moves in **boldface**)

You are in Golconda's central square

North A Gate South, A Street East: A Wall West. A Golden Door Up. The Sky Down, The Ground

You are in Goiconda's central square N
You are at the north gate of Goiconda

N You see a man in rags. You are in a

narrow valley
Talk man

The beggarsays, "Aims for the poor?"
You are in a narrow valley
In a typical **Lords of Karma** adven-

Ven-

ture, the player might be sent on a quest by the king to rescue his daughter, fight and kul her kidnapper, return the princess to the palace and get a handsome reward.

Though some may find the computer a little terse, particularly compared to Avaion Hill's own Empire of the Over-Mind. Lords of Karma provides an unusually wide varety of adventuring experiences in a single program Definitely a stand-out among text adventures (Frank Laney)

Gorgon (Sinus Software/Appie II/48K) is another winner from ace designer Nasir in which games pilot a spaceship over a strange, alien horizon. The mission, to protect the helpless humans who dot the landscape from the hideous winged harpies that haunt this world.

This is a line home version of the popular con-pg gime. Defender The only major defect here is not the designer's fault but rather must be laid at the Apple II's doorstep. As all owners of this otherwise fine personal computers know. Apple doesn't make joysticks. This means that game programs must be compatable with the paddles supplied with the system.

To simulate joystick-type control, the "A" and "Z" keys have been assigned to control vertical movement, while the horzontal direction keys handle side to side action. The space bar functions as the fitting button.

What with fingers slipping off keys pendically and the general distortion of direction, what would otherwise be a spectacular joystok game becomes overly complicated. Perhaps the joystoks offered for the Apple by other venous could provide a solution to the problem and allow arcaders to fully enjoy Gorgon, IBIKunkel)

Horseracing (CE Software/Atan 400 & 800/16K), by Jerry White, is a remarkably appealing program with penty of gambing action

The six realistically rendered horses are affect to the starring gate by the blare of trumpets. The steeds, saddled with names like Knot2Knight and Eyegofast, go off at odds ranging from 3-1 to 8-1. The favorites win more often, but they don't pay off as weil. Players make their picks and sev in any desired wagers.

The field races on a straight track marked at the quarters—located at the top of the playfield. The gamer's complete lack of control over the horses increases the excitement level as well as lending a touch of realism to the proceedings.

This is definitely a "more the merrier" program. It's probably best with four bettors. The computer keeps track of the winnings and losings, so even the group's mental math whiz can reiax. (Bill Kunkeil)

Space Trader (Spectral Associates/TRS-80 Color Computer) is an electronic board game of commerce, stock deals, mergers and good oid cutthroat competition. Space doesn't really have much to do with the game, but who cares?

Two to four can participate Each round, the computer randomly offers a payer a choice of five possible locations on which to build an outpost [Space Trader is played on a 9 x 12 gnd dotted with red stars.]

There are essentially three types of outposts. Unattached ones are not adjacent to a star, outpost or existing shipping lane. A second posibility involves choosing an outpost that is next to a star or unattached outpost and establishing a new shipping ane.

Only five such anes may exist in the game at any one time. The TRS-80 assigns each new one a name in alphabetical order as a mnemonic for players.

A third alternative, after shipping lanes have already been formed, is to merge two existing ones by selecting an outpost site adiacent to both

The program makes good use of onscreen graphics to help participants check any location's status at a glance Unattached outposts are denoted with a write diamond, while attached ones are marked with their laine's special symbol.

Whenever a payer chooses an outpost, he also gets an opportunity to buy stock in any excting lines. Aithough the shipping lane's founder gets a five-share headstart, nich players can buy as many shares as they can afford. There's also money to be made as a result of mergers and stock spits, so the victor must be someone part stock manipulator and part wheeler-dealer

Space Trader exudes the same appeal to acquistveness and greed that have made games like Monopoly and Acquire such universal favorites. [Altrough there'll never be marathon space Trader games, since the struggle for economic supremacy uses a maximum of 40 turns]. All in al. Space Trader's a very good deal for TRS-80 Color Computer games. [Chambedain]

Electronic Games 65



STAND ALONG SEENE

Dark Tower Challenges Adventurers!

an you defeat the tyrant's band of brigands? Can you withstand the dragon's attack, and find the three magic keys to open the Tower? Can you retrieve the ancient magic scepter that lies within?

All this, and much more, awats you with Mitton Bradley's beautifully designed Dark Tower. The game is made up of a plastic electronic tower powered by two "D" see alkaline batteries, a game board, and many paying peces. The package is thoughtfully designed to provide storage space for the assembled game. Settingup will take some time. but once completed, Dark Tower will provide many hours of adventure gaming for one to four players.

While on their mission to lay sege to the Dark Tower, heroes battle brigands, face dragons, get hopelessy lost in unchartered territory, and have bands of warriors decimated by plague A wizard's curse may be put on them, or they may curse another player

But the rewards that accompany these dangers are worth seeking. You may win golden treasures, or a dragonsword to help you kil that firespitting beast. You may even be awarded the flying horse, Pegasus

The game board is divided into four quadrants, each containing four buildings—a ruin, a bazaar, a tomb, and a sanctuary. Each quadrant represents a knodom and is festooned with a flag. In

by Joyce Worley

the center of the circular board stands the Dark Tower, the heart of this game The Dark Tower is a plastic structure

The Dark Tower is a plastic structure approximately one foot high, topped with its flag. A digital display window signas the action, and three light-up windows present the visual displays of events that occur. There are 12 keyboard buttons with which the payer signals his choice of actions.

Three skill levels differ from one another in the number of brigands that must be fought in the Tower A fourth setting provides a special teaching mode to introduce players to the various functions of the keyboard. Each level can be programmed for one to four challengers.

When play begins, a hero's pawn is located in the citadel square of each kingdom Moving in a counterclockwise direction, play proceeds around the board, as heroes visit other territories, have adventures, and accumulate treasures. As they travel, they search for the three magic keys which will open the Tower, Each player accumulates the set of three keys by finding one in each of the foreign kingdoms the hero visits. Orice a hero has three keys. he returns to his home territory. From there, the hero lays siege to the Dark Tower in which is hidden the ancient magic scepter. If you can overcome the guards in battle, the hero wins the

scepter and the game

Each move around the board is accompanied by a push of a keyboard button. The computer then selects one of six





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Each move around the board is accompanied by a push of a keyboard button. The computer then selects one of six random events, safe move, a battle with brigands lost in unchartered territories

plaque draggn attack, or w.zard's curse A victory may give the piayer gold, a dragonsword a magic key control of a wizard with his curse or a token good for ande on Penasus, the flying horse

Herges with gold may visit the bazaar to purchase additional food rations, a beast for carrying treasures a scout twho will prevent detting jost, a healer (who can cure the plaque) or more war nors. The Tower will display the wares for sale and quote a price in the digital display readout Hagging has a 50% chance of bringing the price down However, be careful—if the merchant s offended the bazaar will close and you'll have to wait for another turn to try

Good strategy suggests always travel ing the shortest distance between points when moving around the board it is advantageous to survey the territory and avoid unnecessary moves which will only expose the hero to additional dangers. Also, be certain to watch food. supplies, because an army travels on its stomach in Dark Tower as well as in the rea world. The mini-computer in the Tower will keen track of your dwindling suppres If they aet too low you must ap to a bazaar to acquire more

But the most important strategy is to attract as many warriors as possible

They can be hard to hang on to at times - numerical score is a significant feat Each plaque takes two warners from you if you don't have a healer Every the mini-computer, no two games will dragon attack costs one-quarter of a nero stota, gold and warnors Suffering a curse takes a similar to.

Warriors are most important, though, in battles with brigands. The bad guvs fight we, enough to ravage an entire army especially if they outnumber the good guys. Heroes may retreat, if their band's at a disadvantage, but even this especially in the battile skirmishes with will cost the life of one warrior

There are other ways to gain warriors besides buying them at the bazaar Entering a plaque territory with a healer gains men, as does slaving a dragon or finding a wizard. Finally, visiting a sanctuary with a band of four or less men results in getting enough aid to double the size of the effected force

As play proceeds around the board adventurers acquire one magic key in each country. When one hero finds a three keys and returns to the home. citades, that force can assault the Dark Tower to try to regain the scepter if the attack is successful, a victory picture appears in the viewing window, and the Tower plays a victory song. The Tower rates players from 0 to 99, but winning the scepter is, in tself-a great accomplishment. Even doing we renough to menta mends it for ages 8 to adult, and while it-

Because of the randomizing factor in ever be exactly the same Players of Dungeons & Dragons or RuneQuest will be entranced to see this mechanization of a fantasy role-playing game

it does have flaws. There isn t as much variety in situations that occur in the game as might have been wished, and play may get a title cut and dried. brigands

Miton Bradley has done an outstanding job of computerzing a fantasy game Dark Tower is very attractive. and can be played by all members of the family. Though suggested for ages eight and over, parents may need to help voungsters assemble the board and Tower, and coach them on how to play However, once the game is set up and the keyboard mastered, it is simple enough for anyone to enjoy Dark Tower functions well as either a solitary or group game, and should provide nours of entertainment.

Bank Shot is an electronic pool game for up to four players to delight the hustler in all of us Parker Brothers recorn-





Eight ball in the side pocketi Parker Bros. electronic version of pocket billiards - BANK SHOT

random events safe move, a battle with brigands lost in unchartered territories plaque, dragon attack, or wizard sicurse

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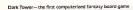
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Because of the randomizing factor in the mini-computer no two games will ever be exactly the same. Players of **Dungeons & Dragons** or **RuneQuest** will be entranced to see this mechaniza

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Bank Shot is an electronic pool game for up to four players to delight the hustlerin all of us Parker Brothers recommends, if for ages 8 to adult, and while it







Eight ball in the side pocketi Parker Bros. electronic version of pocket billiards— BANK SHOT

tle kids will be delighted with the game, the adults who find this in their Christmas stocking will be entranced

The octagonal unit resembles a flying saucer. The playing field on top of the game measures about 11% in by 21% in and looks like a regulation pool table in diminipulse form.

After a musical tone signals the beginning of the game, a glowing red bal appears against a velvety background. Six buttons allow the electronic pool sharks to choose the game, and control the action.

There are four var ants There's solare straging pool in which the player trys to sink three racks of balls with as few shots as possible. The second is the two-payer version of the same game that allows the payers to choose the number of balls, from 10 to 90. The third is "box pool" in which two players try to pociet the "poison" ball ab inning ball, after they dispose of air the orders. The fourth choice sets up an almost endless variety of tirk snots.

After pixing the game, pressing the cuelous shoot button makes the cue ball and rack of balls appear. The cue ball is easily distinguished from the others since its aways the brightest one on the above Pressing the aim button causes two bais oright to appear in front of the cue ball as a pointer, showing the direction the cue ball will trave when his

After aming the cue bail and adjusting the angle, press the cue up/snoot button twice, and two lights representing the cue stick will appear behind the cue bail. To shoot, press the button again, and hold the button down. The longer it is held down, the faster the cue bail traves,

Bank Shot keeps track of the players and indicates the next one to snoot after a mission a scratch. As soon as one player sinks all the balls agreed upon a alphted arrow points to the winning player's side pocket.

The instruction booket that comes with Bank Shot is specially valuable to any payer who wants to master insight of the mistructions show exactly how to sink the bask shots of the game, compete wit diagrams and illustrations it as oepplans in oteal exactly what happers to the bail at each angle. When you have practiced able on straight shots and simple angle shots. It's time to move not finesse, cushion, and combination shots. Then, if you really want to dazze your fined swith some fancy strikvious, practice the trick shots until you've mastered them.

This game is guaranteed to keep the most aviid poolhalf habitue home at picht.

Night 68 Electronic Games



Coreco's Allen Attack gives electronic gamest the chance to save the universe—or at least a small corner of it—from principles of alem mades of alem principles to small principles of alem principles of a least bases the dust another flight of sox aren attackers. Where one swept elements of pensis fithe defenses thip can pulled only to pension the defense ship which are shown with alem some start of the defense ship signals the end of the dame.

Start the game by setting the onloft switch to skil, level 1 or 2, choosing regular or fast speed for the attacking aliens. At the higher speed, the altens really zip around, so it's best to gain some practice at skil leve. 1 before advancing to the tourier one.

The display panel has four squares across the top which give score readings, and four more across the bottom of the panel. These eight squares act as impenetrable sheets since its impossible to fiv or fire through them.

The unit features an arcade-type joystock control which gives both four directional movement and fring-depending on which button is depressed. Holdingdown the "move" button wil-allow the defense sinp to travel in the derection acted by the joystick. A quick change to the life" button, and the defensive missic traves toward the appropriate com-

There is a very brief reloading delay following each missile aunch. That means guriners must pick targets with some care.

The airenish psiattack in two ways. As they swift across the piavfield, the invaders bombard the playfield if they actually reach the defense ship, they completely enguif and destroy .t.

it is good to bear in mind, when playing Allen Attack that the aliens will come on the screen from the corners of the playing field. Try to destroy them. there before they get to the middle of the display panel if they reach the center of the screen play a cat-and-mouse game, always trying to keep a barrier between the defender and the invader until there is a clear missile shot. The shield panels are very effective, and it's possible to cower behind them like a motorcycle cop in back of a billboard, darting out just in time to tag the alien speeding by But beware of letting the alens get in too close, or you won't have a chance to see and evade their destructive beams before they hit your sn.p.

Gamers score points for each ailen dispatched and a bonus for every compete flight of ships destroyed. Speeds -crease for each of the first eight flights, and the point values increase proportionately. After that, everything stays at the same high level.

Expect to see some phenomenally high scores on Allen Attack. Also expect some trouble prying the game unit out of the hands of anyone who picks it up because it is definitely addictive. Allen Attack may well be the most charming hand-held science fiction game ever released!

Coleco industries says that **Bowla-tronic** gives gamers "the total control of real bowling." While arcaders might miss the smell of the waxed anes and the noise of the crashing pins, the electronic



action should be realistic enough to exc.te even the most avid bal-fingers

Up to four people can play and the computer will keep track of each person's position and score. When first activated, the machine will flash "P" on its digital readout score box, and gamers may press numerais one to four, indicating the number of players. The computer then takes over, showing each player's turn, frame number, and current score

By pushing the "nint" button the computer will advise the best path for the ball to follow. The player holds down the button corresponding to the starting point for the ball to be released from Then, simultaneously push one of the five curve-indicator buttons, and the ball will travel down the lane in the pattern

An electronic animated bowier runs across the top of the screen to indicate the choice of speed for the ball Kegiers simply release the bail when the bowier has reached the desired speed, and the computer does the rest

The ball, represented by a red cursor files down the lane from the chosen spot, curving at the precise angle and speed selected. The pins fall with an electronically produced sound, then the digital display shows the score If your make a spare or a strike, Bowlatronic serenades the player with loyous victory

After the second ball, the display indicates the arcader's total score, and signas the next to bowl. Play continues through ten frames. A spare in the tenth frame gets one extra ball, and a strike in the tenth earns two extra balls, just like in the real thing

At the end of the game each player's score flashes. The digital display then indicates the winning paver and his score The pin display strobes in electronic ex-

Bowlatronic operates on two 9-volt battenes An AC Adapter salso available for separate purchase (\$7.90)

This is an unusually handsome standalone unit, in a tan matte-finish cabinet. with a transparent red piastic face panel and bright red electronic lights for the play action and read-outs. This is a striking game to give or receive, and will provide spare-time fun for bowling enthusiasts from eight to 80

Pinball wizards will flip over Wildfire. the electronic pinball game from Parker Brothers it's one of the most attractive handheld games ever produced. Playable by one to four players, Wildfire is a completely charming electronic simulation of the full-sized machines

continued on page 72



Own Your Own

by Willy Richardson

nce upon a time, the ultimate dream of all arcade fanatics was to own a real, live pinbail machine. The well-heeled bought old, even badiy damaged floper games and had them cleaned up—and even rebuilt—often at areat expense

But possessing one meant more than just a chic luxury or hip status symbol The mere presence of such a wonderful collection of flashing, colored lights and electronic beeps and boops seemed to create its own portable, arcade atmosphere of fun and excitement in one's own home

Moreover, some of the better flippers were authentic works of pop art. Even the most conventional, roadhouse-quality machine made an ideal conver sation piece. And of course, you could even play pinball on themi-

This, however, is all in the past. Just as the videogame has dethroned pinbail as the arcade king, today's arcader dreams of the day when he will first plug in his very own Pac Man, Asteroids

or Phoenix.

The most popular type of coin-op videogame among private collectors is still the "cocktail" or table model

Of course, no coin-op game is cheap. The newer, still popular games cost anywhere from \$2,000 to \$3,000 new

in the U.S., the "upnght" model is still the standard But as coin-op units spread to convenience stores and movie theatre lobbies, a new size game cabinet, called "cabaret", has made the scene The cabaret is a "stand up" game, but it is smaker and more streamlined than the upright Cabarets can earn as much money as the big machines, but operators can squeeze more machines in

Cocktail and cabaret models have become the apple of the arcader's eye for two reasons. Both are more desirable (in terms of fitting it in the living roomland more realistic (because of their lower pricel to the would-be owner

a rental basis and, once the game has become played out, it goes back to a warehouse It is then either cannibalized for parts, reconverted into a new machme, or heid for sale. The few that are sold go mostiv to specialized markets, such as resorts and small private clubs, where

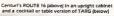
the novelty of any videogame, old or new, will stimulate interest It is at this level that the private collector can pick up the videogame of his dreams

Companies such as New Orleans Nove.tv (504/529-7321) and Theatre Amusement of Calabasas, Ca. (800/423-5847) requarly advertise used videogames, old and new, in the pages of coin-op trade madazines. Another, U.S. Amusements of New Jersey [201/926-0700] speciaizes in cocktail versions of air the most popular arcade games, from classics to current hits

The following is a brief listing of some

But as the life expectancy of most coinop games is rather short, gamers can often pick up real bargains among the

older, classic videogames. Most arcade operators take games on







of the more popular classic and modern

videogames and the price

neignborhood they ave in See anything

PHOENIX from Centuri in cabaret-

you'd like?



Centuri's smash coin-op EAGLE in upright model(left) and in the popular, smaller cabaret version (right)



Western target game has gamer using a realistic handgun

TARG (Exidy version/\$1275) Popular, new sfigame now being produced by Centun

NIGHT DRIVER (Atan/\$400) Arcade version of the classic driving

FOOTBALL (Atan/\$475.)

One of the most popular arcade sports
games ever produced. Unbellevable
track ball action.

VIDEO PINBALL (Atar./5695)
Utilizes beaut full colored plastic overlay to duplicate pinbal, graphics

with remarkable precision. Most realistic version of video pinbal ever created BATTLEZONE (Atan/\$2000)

Not so expensive when you consider that this contemporary Quadrascan classic is still a super moneymaker. The monitor is alogied in the cabinet on its back projecting is smage onto a sanete. 50%-reflective surface, century divinch a second screen is postioned. Combines new birds screen is postioned. Combines new birds screen is postioned. Combines new birds screen is postioned. Sometime with re-markable inthre-dimensional special effects. An if shark battle on the moon, using a pail of authentic tank joysticks as controllers.



coin-op supergame, ASTEROIDS

BREAKOUT (Atan/\$300)

Atan classic uses ball and paddle to break through a multicolored brick wall

Atari's MISSILE COMMAND coinop in a sleak, cabaret cabinet







Lunar Lander (Scott Adams/Atan 400 & 800 and TRS-80/16K) is yet another entryin a field as crowded as the category of Space Invaders imitators Somermes it seems as though every company capable of copying a cassette is trying to sell a game on this theme

The Scott Adams version, however, is about as close to coin-op quality as

anything now available. Players being hy selecting one of four skill levels, which range from difficult to skill evels, which range from difficult to rolloculous, and obetermining the lunar topography. The landing sites look but they become mindbogglingly contessionably minding atthe "rowers" level, but they become mindbogglingly convoluted at the "commander" setting At that level, it isn't unusual for politics for that evel, it isn't unusual for politics for the thresseys, jockeying the lander onto pads located at the bottom of ravines or in deep caves.

Pilos steer by moving the postack to the left on right is needed. Timus is appied either by pushing the stick forward or hitting the accord button. Pulling the sick back sents be lander into a deadfail. A gauge to the left of the payleted feorois fuel consumption, while an indicator to the night shows the amount of inst-red for "insafe". Yellow for "pobably stee" and green for "safe". Payless sore points based on the difficulty of and the amount of fuel left over after the landing.

The TRS-80 version has one feature not found on the Atari Lunar Lunder Once the craft comes within range of the target landing site, the playfield switches to a close-up view to make minute course corrections a shade easier

Prospective video astronauts should be warned that the retro rockets are extremely powerful in Lunar Lander Too much thrust can send the snip off the screen into a lunar orbit, which results in lost turn (BIII Kunkel)

standalone scene

continued from page 69

Wildfire is housed in a steel-blue plastic casing. The playing field has a painted design highlighting the features of the game, reminiscent of the beautiful playing surfaces of the larger games.

Everything about **Wildfire** is completely electronic, from the flippers and ball movement, to the scoring and sounds

The off-on switch allows a choice of

volume settings, standard or low. Either volume will provide arcaders pleasant musical tones to correspond with the action.

Two thumb-operated buttons on the sides of the game operate four fitpoes that guide the course or the ball. By making contact with the ball late or early, the angle of the hit sends the ball in different directions. The flipper buttons also boost ball speed and intrease control by activating six "nudge points" in the playing "".

Just like its big-brother relatives, Wildfire will mule up if the gamer gets too pustly it's necessary to be careful not to overuse the flipper buttons. Pressing either flipper button more than twice per second causes the machine to bit, losing the ball in play and all the bonus points that were scored during that round.

Whithir is playable by up to from gimes at once, with a choice of three different speed beginner intermediate officers of the beginner intermediate different peed beginner intermediate in the beginner in the beginner in all yes, hold down the left flaper button and presstre eight flaper button will the desired number of labyers appears on the display To alter the speed, deep the display To alter the speed, deep the display To alter the speed, deep the the display To alter the speed comes the properties of the speed in the properties of the speed of button until the diserved speed comes to the properties of the speed is individually adjustable to compensate for unequal still among the parricipants in fact, games can actually change speed sking play if they device without interfering with the game in prooress.

After picking the number of players and speed, press the shooter button once to bring up the "ball" is glowing red lightly in the fining chute. The display shows winch payer is the shooter and the number of the ball in pay. There are five balls per game. Pressing the shooter button a second time displays current scores. Releasing the button fires the ball. The length of time you hold down the shooter button before releasing it determines the force behind it.

Strategy in this game is the same as in full-size pimbai. Try to guide the ball into the high-sconning areas by influencing it with the flippers. Always attempt to light the threee bumpers, as they give bonus points that increase the score.

Wildfire uses six AA size batteries or can be operated with a 9 volt AC adaptor, and should provide hours of fun for every pinball enthusiast *



strategy session

continued from page 29

help everyone do better, particularly at Atan's **Super Breakout** for the 400/800 computer system

The **Super Breakout** cartridge actually contains four variations of the traditional garrie, each requiring a separate strategy

The first game is standard Breakout, featuring eight layers of bricks. The top four are "speed bricks" that double the speed of the ball when they are hrt. The best bet is to concentrate on one side of the wall, directing the bail to the left or right by hitting it with the appropriate section of the paddle. Once the ball punches completely through to the top of the playfield, called a"breakout," it'll bounce around back there and score bunches of points. Be prepared, though, to see the paddle haive in size the first time the ball contacts the top of the field As difficult as BREAKOUT is with a regular sized paddle, playing with the sliver that remains after a bali hits the too of the playfield is considerably more dif-

The last few bricks always pose a problem Keep the ball in play, and they'il vanish eventually

In Progressive Breakout, the rows of bncks scroll downscreen toward the paddle Each grouping of four rows of bncks is separated from the next by the equivalent of four rows of empty space. As the game continues, the effective size of the payfield is constantly shinking as the walls noth closer to the paddle.

Start the game with the same approach as used in regular **Breakout**, but switch from blasting one side to cleaning the entire wall to prevent the build-up of low-lying obstacles.

if the ball stays in play long enough, the walls will drop one level seach and every time the sphere hits the paddle. At this point, it becomes witually impossible to destroy each wail competely as it comes into range. Instead, by to get the ball as far up the playfield as possible so that it will rattle around among the more valuable, five, and sever-point bricks.

Remember that, at this juncture, the paddle will shrivel to half its original size as soon as the ball strikes the top boundary. Switching to an attack on the remnants of lower-lying walls, at least temporarily, will give the game the chance to generate another helping of those seven-pointblue bricks.

GOTO computer camp

It had to happen. There are foreign any age camps, resignous camps, sports camps and now—computer camps! As it becomes more and more obvous that computers are the present as were as the future of this society parents everywhere are realizing the importance of ading their offspring to familiarize themselves with this hot technology.

Creative Computing magazine has started Computer Day Camp to cater to this emerging need it's so successful that the camp added Saturday morning casses this fall.

"We've even nad Atar. computer people here to teach the chinden about their system" says Bandara Garris. "We started the Saturday classes so that kids who've begun programs they're amous to finsh, wi, be able to We've seen a lot of interest in this idea of a computer camp."

Here Come the Videogame Clubsi

*Atan VCS and Matter Intell vision owners will probably want to in vestigate clubs recently started by both companies for the benefit of oyal fans

George Dakota was first off the mark with the Astr Game Club. This organization offers membership cards, certificates a quarterly newsetter and access to the "Club Store". Members can order everything from t-shirts produced by the Whiz K dsj to sunglasses decorated with the familiar Atar incopo

The Atan Game Club has just made a major move to upgrade its newsietter doubing the size of Atari Age to eight pages. The extra space will be devoted to material about Atan's conop dames.

Matte has recently announced the formation of the Intellivision Game Club



continued from page 16



with George P. motorn as honorary piesiden; Members receive a handsome covored certificate and the quarterly newsietter.

For information about the Atar. Game Cub. connart. George Daxotal clo. Atar. Game Cub. P.O. Box AGC. Half Moon Bay. Ca. 94019 Intellivision partisans can contact their organization by writing to Intellivision Game Club. P.O. Box 4010. Burlingame, Ca. 94010.

Today's Army— Trained On Games

*The soldier's best friend his rife may soon be as out-dated as the spear and crossbow. The "New Army" still travels on its stomach, but now recrust will be aiming with a joystick and fring by pressing the ac| tion button

The new weapons systems require the solder to either ook at a video screen or down-range to track a target 'explains Capt Gary Bisnop, Plans and Operations Chief at Ft. Stewart, Ga. Mindfu, of the proven abody of videogames to mprove handleye coordination. Capt. Bishop is now study ng the feasibility of the rashibility of the rashibil

For the moment how ever, Capt Bishop has a more modest goal in mind. Getting a videogame concession at the fort's PXI.

IBM Gets Personal

★With nithe next year a sizable number of arcaders may be playing games on their very own iBM comouters. The company, virtually synonymous with electronic brains to most folks, is finally going to produce machines for the home and small business markets.

IBM plans three systems, ranging in pince from \$1,560 to \$4,500 Gamers will most inkely be interested in the iow-end unit. Soid without monitor or cassette, it comes with 16K of memory. An additional 64K is available for siightly over \$500.

Aftime IBM personal computers are based on a 16-bit microprocessor, the 8088 This crip is faster than the ones used in most other home computers and wilbe able to handle significantly more compex programs. This could lead to the creation of some mighty complex games, particularly in the realm of fantasy adventures.

How soon will games be produced for the IBM system? IBM will intuitily concentrate on business software. Once there's a szable corps of owners, however, suppliers will, undoubtedly begin pumping out enter tainment software.

'Cue Bail' Controller Makes Coin-Op Debut

*Centipede, a recent mtroduction from Atar, is the first commercial arcade machine to sport the new smaller track-ball controller. The new size about as big as the cue ball in puor, makes the revised track-ball much easer to grip.

In Centipede, the minicontroller is used to move a cannon located at the bottom of the playfield to the left oright. The arcader fres at a huge centipede that is slithering down the screen. Each of the bug's segments has a specific point value.

The smaller track-ball controler is scheduled to get workout from Atan It will probably be used on all future con-ops that would have used the grapefruit-size track-bal.

Electronic Games 73





The Atari version of FOOTBALL features vertical movement on non-scrolling playfield





Intellivision's NFL FOOTBALL has eye-popping graphics, scrolling, and extensive play selection

The Odyssey² version of video FOOTBALL features non-scrolling, horizontal movement



Be An Electronic Chuck Noll

Through the wonders of modern technology, today's football fan is no longerjust a slave to Sunday's broadcast. These days it is possible to hold a miniature stadium in your nand, create your own pigskin action on TV, and build an electronic team from scratch.

Sports games have always been popular with electronic games. One of the earliest "electric" games—way back in the early 1955—used lightweight pagiers mounted on pairs of sensive, plastic strips. The men moved randomly only the metalic paylified when the gamer switched on a small motor that caused the playing sufface to whortax.

Sports simulations have come a long way since those primitive times. Nowadays, a game ran choose a variety of game formats, from hand-helds to the highly detailed computer re-creations of the real thing.

Even the hand-held and stand-alone

football games are growing in sophistication by leaps and bounds. Coleco and Matte, pionees in this area of electronic gaming, with their Head-to-Head and Football units, windly mirror the advances the field has made since those early models in their latest releases. Colleco's newest football offering is its



Radio Shack's FOOTBALL was one of the first software releases for their TRS-80 Color Computer

Total Control sports cartridge system.
This table top-size device offers all four major sports on individual cartridges that pop into the center of the game player.
Mattel, meanwhile, has just introduced its Champlonship series. Baseball and Football were the two intal titles.

The middle ground in the electronic football sweepstakes is occupied by programmable home videogames. Most of these versions offer graphic and audio falls that even the state-of-the-air stand-alones can't match. They also provide appared play selection, control over whichever payer has the ball and, usually, run and pass options.

Every home programmable videogame system has a football cartridge. The most interesting versions are those for Mattel's Intellivision, N.A.P.'s Odyssey' and Bally's Professional Arcade.

Of these three, only the Odyssey² ver-



sion features a non-scrolling playfield. This means the entire gordion is squeezed onto the screen. The scrolling approach breaks up the field into 40-yard segments and follows the accion as it moves up or down field. Anon-scrolling payfield is a definite disadvantage, but the Odyssey designers and such a great job within their limitations that it can almost be overtooked.

Coaches control the quarterback at the snap and can opt to nun or pass. Passes are thrown up, down or streight state of the state of the wide receiver. All other players move according to the present play with computer-controlled defenders programmed to go after the man with the bas.

Bally's programmable pigskin has everything the Odyssey's version has and then some. The Bally system, like the Intellivision, has a computer's power and therefore throws in such delignitul extras as fight songs, crowd cheers, scrolling and top-flight graphics.

But the cartridge most arcaders agree is the best "action" version of probail is the Intellivision's **NFL Football**

Mattel's NFL Football comes with a playbook that would make most college teams realous. Some fans claim that, if anything, this game is too realistic, with more plays than anyone but a proinebacker could possibly want or need Others criticize NFL Football for its slow playspeed, a common complaint with Intellivision games. The Master Component was basically designed to play sophisticated sports and military simula. tions rather than dexterity-skill style arcade games. In exchange for the marveious graphics, the scroiling playfield, the highly realistic figures and the wonderous sound effects, Mattel had to sacrifice fast play action. When simulating a more leisurely-paced sport,

such as NASL Soccer, this is barely indiceable. For others, such as Major League Bassball it is a deal Sow in NFL FOOTBALL, the team coaches can watch the action unfold as if it were a sow-motion replay. Whether you find this a posture or negative latter depends upon individual tastes.

The high end of the plugged-in pagkin prade consists of the vanous strategyonenced computer games. Computer football games, however do not yet em play action in stead concentrating on the true. "Coaking" elements involved in football This generally begins with play selection. This generally begins with play selection. This generally begins to provide the properties of the coaking to provide the provided of provided the provided provided the provided the provided provi

In its most advanced venson, Computer Quarterback allows each coach to buy his team, man by man Coaches who'd like a "Steel Curtain" can spend

bucks on the big D. Those who prefer an air-circus can fashion a computer version of the San Diego Chargers

Whatever your theories, the options are nearly endless

There are however more graphically oriented computer football programs On-Line Systems' Hi-Res Football represents a real attempt at combining graphic and strategic elements in a single package

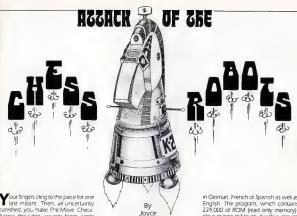
Mattel, meanwhile, has recently announced that it plans to release Super NFL Football on cassette, to be played using the intellivision keyboard. Since the long-promised keyboard has yet to be delivered there is no way of knowing when we'll actually see this one in our living rooms, but it promises quite a bit it is played in three-quarter perspective flust like NASL Soccerl as opposed to superimposing the on-screen athletes over a bird's-eye view of the playfield Cheerleaders leap into the air on the sidelines, players are fully animated and there are even slow-motion instant rediavs

As marvelous as these upcoming cartrigges sound even greater delights are in store. The rapid progress in electronic gaming technology guarantees it. It's possible that football-craey arcaders will someday re-read this article, stifle a yawn and ask, "What, no half-time show?" *

Coleco's TOTAL CONTROL system is programmable



76 Electronic Games



banished, you make The Move Check Across the table, sounds blare lights flash and an arm flails wildly in dismay Ungentlemanly behavior? Nothing

could be closer to the truth. The opponent facing you this day is certainly no gentiemani

With a cick and a whire a metal arm glides over the board, grasps a piece and moves it to the desired square Now the complexion of the situation

has entirely reversed. Survival, not victory, is uppermost in your mind as you're luctantly make another move. Now it's your turn to squirm while your inhuman foe dervers the coup de grace.

Checkmate You've just become the latest casualty in the attack of the cness robots

The loyously celebrating mechanoid that just snatched sweet victory out of your hands is the Robot Adversary by Novag Industries This most unusual of all the chess-playing computers uses sensor-touch technology to automatically detect the human player's moves. which are made on a requiar board with actual pieces

Then the Robot Adversary uses its 24K microcomputer chess program to scan up to nine moves in advance. Hav-

Worley ing determined its best strategy, the machine's arm transfers the desired piece to the appropriate square. The Robot Adversary even resets the board after each game

Fidelity Electronics started the ball rolling in 1977, when it created the first dedicated chess-playing computer, the Chess Challenger. More than 1.500,000 devoted pawn-pushers have acquired such devices since then, often ending years of frustration due to the chronic scarcity of suitable human opponents

Fidelity's improved version of the program that won both the world and U.S. microcomputer chess titles in 1980 is the heart and soul of its Champion Sensory Chess Challenger. Each time a piece is shifted from one square to another, the move is automatically recorded by the unit's brain. The SCC plays a lot faster than some of the early chess robotscrucial in timed tournament play-by plotting its strategy while the human player is moving

The Voice Sensory Chess Challenger goes the SCC one better it employs a 50-word vocabulary to audibly call out every move and capture. For an extra thrill Fidelity makes versions of this model that will checkmate the unwary

in German. French or Spanish as well as English The program, which contains 224,000 of ROM (read only memory). plays at nine skill levels. It is thus easy to match the device to the ability of the human, whether novice or master to quarantee a remarkably even game

The modestly priced Chess Chal-Jenger 7 has seven levels of skul. Audio. feedback produces a single tone each time you press a key, and a double tone when the computer responds. A large one-naif inch LED display shows ali

The Voice Chess Challenger incorporates all the features of the Chess Challenger 7, but gives the computer the ability to talk back. It announces all of its moves and repeats all of yours. It is ideal for use by the blind, since the game will also repeat all board positions on

The Decorator Challenger contains ali the features of the Voice Chess Chaflenger, but gives players a choice of ten levels of skill its full sized hand-crafted hardwood chessboard and handcarved pieces makes this the most beautiful unit now on the market

Scientific Systems poasts that its best machine, the System 5, is the strongest microchess computer ever developed, playing at a 1900 level under tourna-



ment conditions. SciSys also offers a portable chess computer, the Chess Traveler, and Intelligent Chess, which uses any TV set as a display monitor, much like videogame systems it plays at 13



Fidelity's DECORATOR CHALLENGER



levels of difficulty **Executive Chess** is a hand-heid unit with eight levels of play, a large LCD enessboard, and attractive stying in a matt-finish luxury cabinet it operates either by batteries or adapter

Applied Concepts boasts a versatile interior of chess robots. The well-known Borls has been replaced by a more powerful Morphy program, bringing greater skill levels.

Applied's Great Game Machine is a programmable game-playing unit takes several cartridges similar to those used with wideogenese. Currently sich black jack, Kriegspiel (neess), Las Vegas (black jack), Kriegspiel (nees si varalion) and Gruenffeld Openings, Clork openings). The versability of this machine even makes. Joods bit to set the Gruenfield cartridge to open the game, and then swirch to Morphy. The Great Game Machine retais for 5279 95 and each cartridge is acound \$100.

Applied Concepts also offers, in the mid-price range (\$219.95). Morphy Chess as a stand alone game. Those on a budget will also want to look into the Diolomat. priced at \$79.95.

Ave Micro System's chess game combines Sargon 2.5, a microcomputer chess program, with a handcrafted walnut and maple hardwood Auto Response Board. Hand-carved chikan and

rosewood cness pieces complete this unusually handsome system. The board automatically senses your moves and responds with small rights indicating with chip ece the computer warns to move and where it wants to move it has been a move and where it wants to move it. The board is modular, and as improved programs become available trey may be pugged in to instantly update this chess computer. A cneckers module is also available [\$149]. The entire game system, called Sargon 2.5 Chess Program & Autor Response Board, retalls for \$875.

In addition to the Robot Adversary.
Novag Industries' line includes Novag
Micro Chess, the wond's briest portable chess computer, with Sensor Technology it can pay at eight skill leves, for approximately 12 to 15 hours on one set of two 9-volt batteries.

The Movag Surer Sensor IV is a

The Novag Super Sensor IV is a moderate pinced computer with an BK program and sensor technology. To move, you press your piece in place and then again in the desired square. The computer moves are pointed out by lights at the board's edge.

The **Novag Savant** boasts a 24K program, thinking up to nine moves ahead Play is on a large LCD chessboard by touching the piece symbol and the square desired. The computer will com-



Pocket versions of BACKGAMMON (top) and CHESS (bottom) from Mattel



piete the move and respond automat

The oidest producer of computer games players is Tryom Inc. It actually developed a machine in the early 70's. However Tryom decided to put its weight behind a backgammon system and dumped its first chess machine in 1973. Two years ago, Tryom reaized

that the market potential for chess players had grown beyond early expectations and went into production with the CC-700 chess system. Called **Electronic Chess**, this portable model lists at \$49.95 blays at seven leves, and comes

1200 to 1600 level and most machines satisfactorily fit within this range, they are very suitable for all but the most advanced chessists. The prices for these games run from as low a \$50-560 for hand-held, battery-operated machines.



The SciSys chess family (top to bottom, left to right): CHESS CHAMPION MARK V, SENSOR CHESS, CHESS TRAVELER, GRADUATE CHESS and EXECUTIVE CHESS



to deluxe modes costing \$1,500 or

The features of the machines coincide with the price. Ali play a good game, and perform as they purport to do.

So if you're tired of postal chess and don't enjoy spotting baby brother two rooks and a knight every game, then a chess-playing machine could solve the problem overnight.



Fidelity's MINI-SENSORY CHESS

with a 9-in imagnetic wooden chessboard and playing pieces

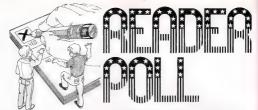
Now, everyone's getting into the act, as the market for chess robots continues to expand. Mattel, the latest to show interest announces that it will soon come out with a chess machine.

Chess-playing machines offer a solution to the perennial problem of the cness addict finding an opponent of equal skill Since most people play at the



Novag's portable SAVANT model Includes an LCD chess board





Please rate the following features from 1 jawfulj to 10 jgreatj

Computer Playland Programmable Parade___

E.G. Hotline____ Player Guide____ inside Gaming____

Switch On! Q&A____ Test Lab_

Strategy Session____ Stand-Alone Scene.

Arcade Spotlight_____ Insert Coin Here

The article - liked best in this issue was

ne of the hazards of pioneening is that sometimes you end up flying blind. We need some information about who our readers are, what they like in the way of a magazine, and what they can live without.

Please take a few minutes to fill out the questionnaire below and return it to Electronic Games. 235 Park Avenue South New York, N.Y 10003 We'll be reporting the results of the polin the next issue Your response will help us create the kind of

magazine you	want	The arrue I liked least in this issue was
Sex Mae	Female	The article I would most ake to read is.
Age Under 16	5 16-25 26-40 Over 40	
Family Income	Under \$12,000 \$12,000-\$19,000 \$20,000-\$39,000 Over \$40,000	Please rate the following possible subject from 1 (not very interestin to me) to 10 for great meriest to me). Programmable undergarmes
Education	High school student	
	Advanced Degree Less than high school	My favorite videogame cartridges are:
		2
Please check off the electronic entertainment devices you now own or intend to buy within the next 12 months		3
or niero to buy within the next 12 months		

	Own	Plan to Buy	1
Atan VCS			7
Odyssey?			3
Intelivision		_	· — — — — — — — — — — — — — — — — — — —
Otner videogame		-	My favorite convop games are:
Chess computer		_	1
Atan 400/800		-	2
Apple n/M	_	-	4
TRS-80 Model [/ill]			
TRS-80 Color Computer			Please check the number of hours you spend per week playing
Other microcomputer	-		types of electronic games Less than 2 hours 2-5 hours
Video cassette recorder	_		6-10 hours More than 10 hours
Video disk player			How much do you spend per week on electronic games.
Giant screen TV	_	_	Under 52 \$2 \$5. \$11-\$25 \$26-\$100
Color terry son set			Over\$100

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Coming NEXT in



he year 1982 is the 10th anniversary of the first programmable videogame. Electronic Games will celebrate this fandmark event in arcading history in its second smash issue.

Among the "must read" features in ED #2 will be.

The History of Videogames

They came to life in the garage of a maverick inventor and have swept to worldwide populanty in less than a decade Now, for the first time, learn the inside story of the beamnings of America's fastest-growing hobbyl

The 1982 Arcade Awards

Which cartridge will be the videogame of the year? You'li find out the winner of this and other major categories in a multi-page salute to outstanding gaming achievements

The Videogame Hall of Fame

Find out which games EG's panel of experts enshrine as the ail-time best—and why Will your personal favorites make the grade? Read this article to learn the answer

How Videogames Are Made

Most arcaders have probably wondered just how the games they love get from the drawing board to the com-on

parlor Next issue EG visits the main Atanifactory in Sunnyvale Call to show how it happens step-by-step The Players Guide to

Electronic Science Fiction Games Electronic Games' magazine-within-a magazine blasts

into the farthest reaches of outer space to explore every facet of today's most popular game theme

There be pienty of other articles and features of interest to ar cade addicts bius these requiar columns

- * Switch Onl
- * Test Lab
- Inside Gaming
- Arcade Spotlight Strategy Session
- Readers Replay * O&A * FG Hotline * Insert Coin Here
- Stand-Alone Scene * Programmable Parade Computer Playland
- And introducing a brand-new column devoted to electronic role-playing games -

Passport to Adventure

So watch for the smit at the Electronic Games On Sale

JANUARY 14 1982!











ARCADING— BIG APPLE STYLE

It's fitting that, in the first issue of Electronic Games, the acade spotlight is focusing on the coin-op cantal of the world. New York City. No place on earth a as closely associated with electronic gaming in the public mind as Times Square. With its gaudy signs and flashing neon lopks, the whole area resembles nothing so much as one gant acade macrine.

The Broadway Arcade Amusement Center, student on the conner of Sand Street and the Great White Way, is the largest electronic fun palace in me Big Apple its magnificent man floot boasts an extensive array of videogame tunprigits and prinal machines. Arcaders enter a wonderland of trooling lights staffedst and madding alens the mrute they step through the Broadway Arcaders man entrance.

The 52nd Street wal is pinball machine temtory. Proprietor Steve Epstein maintains a good mix of traditional analog machines and the newer, souped-up digital flipper games.

ogital hipper games.
Videogame upinghts occupy about 60% of the floor space, lined up in columns. Few gamers will be able to keep their quarters buried in their pockets when faced with this glorious gauntlet of consolarchers.

or constructions: Steve Epstern has filed his parlor with just about every electronic game worth playing, both the classis stand-bys and the newest marvels Space Invaders, Galaxlan, Asteroids, Pac Man and Phoenix are all present and accounted for, but the Broadway Arcade also receives many new machines for testina.







its regulars are often the first arcaders in the nation to play newly developed

con-ops
One newcomer that really got a workout the day Electronic Games paid its visit is Venture. This Exidy design

is the first commercial arcade game that includes role-playing elements similar to **Dungeons & Dragons**. In this one, the gamer battles goowns, serpents, spiders and other evil creatures on the way to rescuring a fair damset—and picking up



ARCADING-**BIG APPLE STYLE**

t's fitting that, in the first issue of Electronic Games, the arcade spotlight is focusing on the coin-op capital of the world: New York City. No place on earth is as closely associated with electronic gaming in the public mind as Times Square. With its gaudy signs and flashing neon lights, the whole area resembles nothing so much as one giant arcade machine.

The Broadway Arcade Amusement Center, situated on the corner of 52nd Street and the Great White Way, is the largest electronic fun palace in the Big Apple, its magnificent main floor boasts an extensive array of videogame uprights and pinball machines, Arcaders enter a wonderland of strobing lights. star fields and invading aliens the minute they step through the Broadway Arcade's main entrance.

The 52nd Street wall is pinball machine territory. Proprietor Steve Epstein maintains a good mix of traditional analog machines and the newer, souped-up digital flipper games

Videogame uprights occupy about 60% of the floor space, lined up in columns. Few gamers will be able to keep their quarters buried in their pockets when faced with this glorious gauntlet of coin-snatchers.

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any treasure within arm's reach. Venture features a multi-floor dungeon. sneak-preview are: Plelades (Centuri), a Center. For about the same cost as an with halls and chambers on each level. multi-part combat game, Samural (Mid-Everything is rendered in colorful, high- way), an oriental sword-fighting contest in or visiting New York City can spend resolution graphics that make Venture in a bamboo-trimmed cabinet; and nearly as much fun to watch as to play. Space Odyssey and Space Fury arcading ecstasy.

(Gremlin-Sega), a pair of potential science fiction classics.

Space Odyssey's visuals are particularly noteworthy. A new process produces up to 256 pastel colors on the monitor. The more delicate tones make an interesting contrast to the less subtle colors generally used by coin-op devices.

The most popular games at the Broadway Arcade are pretty much the expected ones. "Pac Man, Defender and the original Asterolds are our most played games," says Epstein, "Super Cobra is another big one. Among the newer games, Samural has done really well."

Commercial arcades have come in for attack lately from some people who view them as the modern verison of the dreaded "pool hall," thick with cigar smoke and unsavory characters. Operators like Steve Epstein are a walking antidote to such misquided notions.

As far as school kids playing truant to feed their lunch moneyto the Pac Man "gobbler" goes, Epstein believes he has the answer to any potential problem. "When school is in session," he states, "we don't allow children in here during school hours."

"I think," he adds reflectfully, "that as time goes on, arcades are losing the stigma that used to hang over them. As people become more familiar with these games-and stop being intimidated by them-they begin to see the whole thing for what it really is-good clean

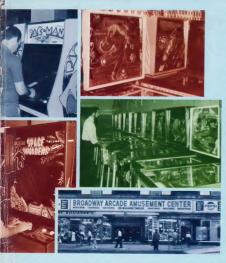
And good clean fun, served up in huge helpings, is exactly what Steve Epstein and his merry cohorts are providing Among other new games getting a at the Broadway Arcade Amusement afternoon at the movies, arcaders living several fun-packed hours in the clutch of











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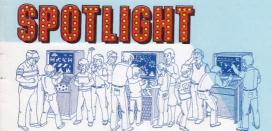
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